



drdar

Department:
Rural Development & Agrarian Reform
PROVINCE OF THE EASTERN CAPE

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION
OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND
IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD
LOCAL MUNICIPALITY OF OR TAMBO DISTRICT**

LOCATION: MVEZO (MANDELA AGRICULTURAL SCHOOL)

PES 3-24/25-0016C

Deputy Director: Supply Chain Management DEPARTMENT OF RURAL DEVELOPMENT & AGRARIAN REFORM Bhisho Private Bag X040 Bhisho, 5600 Contact: Name: Mrs. N. Mateta Telephone: 040 602 5283/ 079 505 9722	Directorate: Engineering Services Chief Engineer DEPARTMENT OF RURAL DEVELOPMENT & AGRARIAN REFORM OR Tambo District Private Bag X5002 Mthatha, 5099 Contact: Name: Mr M. T. Khondlo Telephone: 047 502 7700/ 083 265 3437
Tenderer	
CSD Number:	
LOGIS Number:	
Preference Points Claimed:	
Closing date on tender: 13 DECEMBER 2024 at 11:00	
Total of the prices inclusive of applicable taxes: R	

The Tender

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN
MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO
DISTRICT**

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PART T1: TENDERING PROCEDURES

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA
AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT**

T1.1 Tender Notice and Invitation to Tender

1.	<p>The Department of Rural Development and Agrarian Reform, Eastern Cape Provincial Government, invites tenders for The Construction of Hail Net Tunnel Fitted with Smart Climatic Boxes and Irrigation System in MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO District.</p> <p>The construction works shall include the following:</p> <ul style="list-style-type: none"> • Removing the topsoil • Compacting the area to be fitted with the structure • Reinforced concrete block 500mm x 500mm x 500mm • Drainage channel • Pump house • Supply and deliver of hail nets • Supply and deliver of steel tubing structure • Irrigation system together with 5000 L water tanks • Electrification for pump operation <p>Time of completion for this contract is 15 Weeks</p>
2.	<p>All tenderers must submit proof of valid registration with the CIDB in a CE class of construction works: It is estimated that tenderers must have a CIDB designation of level 3CE or higher. Bidders exceeding their threshold of CIDB grading by more than 15% in combination with any other contract awarded to the contractor, which will be executed simultaneously, could be regarded as non-responsive.</p>
3.	<p>Tender documents will be available during working hours after 08:00 as of 22 November 2024 until the day before the tenders close and can be downloaded free of charge from the Departmental website (www.drda.gov.za) or https://etenders.treasury.gov.za/.</p>
4.	<p>A compulsory site inspection and clarification meeting will be held on 04 December 2024 at 10:00 at 4th Floor Botha Sigcau Building, Mthatha After the Clarification, meeting the prospective tenderers will be taken to the site to familiarize themselves with the conditions of the roads and site. No documents will be sold at the site inspection meeting. No late attendance will be entertained.</p>
5.	<p>The completed tender document and any supporting documentation shall be placed in a single sealed envelope clearly marked “CONTRACT NO: PES 3-24/25-0016C: SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT” and deposited in the tender box at: THE DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM, Corner Owen and Leeds Street, Botha Sigcau Building, Fourth Floor, Mthatha, 5099, SCM OFFICES not later than 11:00 on 13 December 2024 where the tender box will close. Tenderers should ensure that tender documents are delivered timeously to the correct address. If the tender is late, it will not be accepted for consideration.</p>
6.	<p>Tenders will be opened in public immediately after closing time where the name of the tenderer, the financial offer, preference points claimed and proposed period for completion will be read aloud.</p>
7.	<p>All submitted certificates must be valid for 90 days after the Tender Closing Date.</p>

8.	In terms of Preferential Procurement Regulation of 2022, the 80/20 preference point system is applicable.																								
9.	<p>The Department is targeting specific goals in accordance to the Supply Chain Management Policy 2023 with reference to the Preferential Procurement Regulations 2022 The tenderers must submit verification documentation in proof of the preferential points claimed on SDB 6.1, according to table below:</p> <table><tr><th>No</th><th>Specific Goals</th><th>Preference Points allocated out of the 20</th><th>Documentation to be submitted by bidders to validate their claim for points</th></tr><tr><td>1</td><td>An EME or QSE which is at least 51% owned by black people</td><td>5</td><td><ul style="list-style-type: none">ID CopyCIPC (Company registration)'CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)</td></tr><tr><td>2</td><td>Located in the Province where the services will be rendered/ item delivered.</td><td>2</td><td><ul style="list-style-type: none">Municipal rates account ORLetter from councilor confirming residence ORLease Agreement</td></tr><tr><td>3</td><td>An EME or QSE which is at least 51% owned by women</td><td>7</td><td><ul style="list-style-type: none">ID CopyCIPC (Company registration)'CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)</td></tr><tr><td>4</td><td>An EME or QSE which is at least 51% owned by youth (up to 35 years of age)</td><td>4</td><td><ul style="list-style-type: none">ID CopyCIPC (Company registration)'CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)</td></tr><tr><td>5</td><td>An EME or QSE which is at least 51% owned by people with disability</td><td>2</td><td><ul style="list-style-type: none">ID CopyCIPC (Company registration)CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)Medical certificateSASSA registration or confirmation of disability from a relevant authority.</td></tr></table> <p>A trust, consortium or joint venture must obtain and submit documented proof for each party of such trust, consortium or joint venture.</p>	No	Specific Goals	Preference Points allocated out of the 20	Documentation to be submitted by bidders to validate their claim for points	1	An EME or QSE which is at least 51% owned by black people	5	<ul style="list-style-type: none">ID CopyCIPC (Company registration)'CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)	2	Located in the Province where the services will be rendered/ item delivered.	2	<ul style="list-style-type: none">Municipal rates account ORLetter from councilor confirming residence ORLease Agreement	3	An EME or QSE which is at least 51% owned by women	7	<ul style="list-style-type: none">ID CopyCIPC (Company registration)'CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)	4	An EME or QSE which is at least 51% owned by youth (up to 35 years of age)	4	<ul style="list-style-type: none">ID CopyCIPC (Company registration)'CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)	5	An EME or QSE which is at least 51% owned by people with disability	2	<ul style="list-style-type: none">ID CopyCIPC (Company registration)CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)Medical certificateSASSA registration or confirmation of disability from a relevant authority.
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10.	<p>All tenderers must be registered on the National Treasury Centralized Suppliers Data Base, the CIDB before the closing date of tenders and provide the information.</p> <p><u>Invalid or non-submission of the following documents will render the Bidder disqualified:</u></p> <ul style="list-style-type: none">➤ Tax compliance status and company directors of bidders will be verified on CSD for all price quotations and bids. <u>Therefore, Hard copies of Tax Certificate are no more required.</u>➤ CK documents must be attached in the bid.➤ Copy of CIDB contractor grading certificate➤ JV Agreement (if Applicable)➤ Proof of CSD registration (active & recently updated)																								
11.	Part of the works cannot be sub contracted without prior approval from the Engineer.																								
12.	The tender with the lowest price or any tender offer will not necessarily be accepted.																								

13.	For a project to the value of R 3.0 million and more, a Bidder/Contractor who is not from the Eastern Cape Province, must sub-contract 25% of the contract value to a Bidder/Contractor within the Eastern Cape Province.								
14.	All tenders must be submitted on the official forms – (not to be re-typed). Telephonic, telegraphic, e-mail or facsimile will not be accepted.								
15.	Failure to supply all supplementary information, certificates and documentation may result in the tender being rendered non-responsive.								
16.	This tender is subject to the General Conditions of Contract (GCC 2015) and, if applicable, any other Special Conditions of Contract (SCC).								
17.	Bidders must submit in terms of point 15 above, the following with the bid submission: <ul style="list-style-type: none"> i) CIDB certificate of the subcontractor(s). ii) Proof of the CSD registration of the subcontractor(s). iii) Provide details of which items in the bill of quantities will be part of the subcontracting agreement. 								
18.	<p>1. FUNCTIONALITY</p> <p>Tenderers must score a minimum of 60 points out of 100 points to qualify for the further evaluation of their tender submission.</p> <p>NB: For evaluation purposes only projects where the bidder was appointed as the main contractor, will be considered.</p> <table border="1"> <thead> <tr> <th>EVALUATION CRITERIA</th><th>WEIGHTS</th></tr> </thead> <tbody> <tr> <td> <p>1. Project related experience with specific reference to irrigation system installations.</p> <p>List of irrigation system installation successfully undertaken by the bidder in the past 10 years with proof (e.g. completion certificates and/or referral letters) and contactable references included in order to claim points. Failure to submit proof will result in Nil points.</p> <p>5 points per project up to a maximum of eight (8)</p> </td><td>40 points</td></tr> <tr> <td> <p>2. Project related experience with specific reference to hydroponic / greenhouse structures</p> <p>List of hydroponic/greenhouse structures successfully installed by the bidder in the past 10 years with proof (e.g. completion certificates and/or referral letters) and contactable references included in order to claim points. Failure to submit proof will result in Nil points.</p> <p>5 points per project up to a maximum of six (6)</p> </td><td>30 points</td></tr> <tr> <td> <p>3. Financial Capacity</p> <p>Proof of projects completed amounting to R 1 000 000 or above in the past five (5) years. Failure to submit proof will result in Nil points.</p> </td><td>30 points</td></tr> </tbody> </table>	EVALUATION CRITERIA	WEIGHTS	<p>1. Project related experience with specific reference to irrigation system installations.</p> <p>List of irrigation system installation successfully undertaken by the bidder in the past 10 years with proof (e.g. completion certificates and/or referral letters) and contactable references included in order to claim points. Failure to submit proof will result in Nil points.</p> <p>5 points per project up to a maximum of eight (8)</p>	40 points	<p>2. Project related experience with specific reference to hydroponic / greenhouse structures</p> <p>List of hydroponic/greenhouse structures successfully installed by the bidder in the past 10 years with proof (e.g. completion certificates and/or referral letters) and contactable references included in order to claim points. Failure to submit proof will result in Nil points.</p> <p>5 points per project up to a maximum of six (6)</p>	30 points	<p>3. Financial Capacity</p> <p>Proof of projects completed amounting to R 1 000 000 or above in the past five (5) years. Failure to submit proof will result in Nil points.</p>	30 points
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	10 points per project within 15% of the amount or higher, up to a maximum of three (3) projects completed in the CIDB CE class.		
19.	NB: Bidders should note that this forms part of a batch of tenders included into the DRDAR infrastructure program within the Eastern Cape; the employer reserves the right not to award more than TWO projects to be executed simultaneously within the province. The department as a procuring entity will conduct a risk assessment based on amounts and nature of the commodity for the final decision vs the bidder's capacity.		
20.	Administrative enquiries should be directed to: Mrs. N. Mateta Tel: 040 602 5283/ 079 505 9722 Email: Nosibusiso.Minya@drdar.gov.za		
21.	Technical enquiries should be directed to: Mr. S. Somhlahlo Tel: 083 262 2632 Email: Sivuyisiwe.Somhlahlo@drdar.gov.za		

PART A INVITATION TO BID

SBD 1

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	PES 3 -24/25-0016C	CLOSING DATE:	13 December 2024	CLOSING TIME:	11:00
DESCRIPTION	BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM					
SUPPLY CHAIN MANAGEMENT OFFICES, CORNER OWEN AND LEEDS STREET, BOTHA SIGCAWU BUILDING, FOURTH FLOOR,					
MTHATHA, 5099					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Mrs. N. Mateta		CONTACT PERSON	Mr. S Somhlahlo	
TELEPHONE NUMBER	040 602 5283/ 079 505 9722		TELEPHONE NUMBER	083 262 2632	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	Nosibusiso.Minya@drdar.gov.za		E-MAIL ADDRESS	Sivuyisiwe.Somhlahlo@drdar.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELL PHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA _____
SPECIFIC GOALS CLAIMED	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		ALL SUPPORTING DOCUMENTATION FOR THE GOALS CLAIMED ATTACHED		[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No
[ALL DOCUMENTATION REQUIRED FOR THE CLAIM OF PREFERENCE POINTS AS PER THE SPECIFIC GOALS DETAILED IN THE EVALUATION CRITERIA.]					
1.1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		1.2 ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?			<input type="checkbox"/> YES <input type="checkbox"/> NO		
DOES THE ENTITY HAVE A BRANCH IN THE RSA?			<input type="checkbox"/> YES <input type="checkbox"/> NO		
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?			<input type="checkbox"/> YES <input type="checkbox"/> NO		
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?			<input type="checkbox"/> YES <input type="checkbox"/> NO		
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?			<input type="checkbox"/> YES <input type="checkbox"/> NO		
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

T 1.2

Tender Data

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA
AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT**

T1.2 Tender Data

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement (August 2019). (See www.cidb.org.za).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The additional conditions of tender are:

Clause number	Tender Data
C.1.1	The employer is the Department of Rural Development and Agrarian Reform, Eastern Cape Provincial Government.
C.1.2	The tender documents issued by the employer comprise: <ul style="list-style-type: none">T1.1 Tender notice and invitation to tenderT1.2 Tender data<ul style="list-style-type: none">T2.1 List of returnable documentsPart 1: Agreements and contract data<ul style="list-style-type: none">C1.1 Form of offer and acceptanceC1.2 Contract dataC1.3 Form of GuaranteeC1.4 Adjudicator's ContractPart 2: Pricing data<ul style="list-style-type: none">C2.1 Pricing instructionsC2.2 Activity schedules / Bills of QuantitiesPart 3: Scope of work<ul style="list-style-type: none">C3.1 Scope of workC3.2 SpecificationsPart 4: Site information<ul style="list-style-type: none">C4.1 Site informationC4.2 Drawings

Additional documents of which the Contractor are to obtain their own copies are:

“General Conditions of Contract for Construction Works – 3rd Edition 2015”.

This document is issued by the South African Institution of Civil Engineering. (Short title “General Conditions of Contract for Construction Works 2015”), and is obtainable separately. Tenderers shall obtain their own copies.

“South African National Standards”.

These documents are obtainable separately, and tenderers shall obtain their own copies of the applicable sections.

“The Occupational Health and Safety Act No 85 of 1993 and Amendment Act No 181 of 1993, and the Construction Regulations 2014”.

This document is obtainable separately, and tenderers shall obtain their own copies.

In addition, tenderers are advised, in their own interest, to obtain their own copies of the following acts, regulations and standards referred to in this document as they are essential for the tenderer to get acquainted with the basics of construction management, the implementation of preferential construction procurement policies and participation of targeted enterprise and labour.

The Construction Industry Development Board Act No 38 of 2000 and the Regulations in terms of the CIDB Act 38/2000, Government Notice No 692 of 9 June 2004,

SANS 1921:2004 Construction and Management

Part 1: General Engineering and Construction Works;

Part 6: HIV/AIDS Awareness.

SANS 10396:2003 Implementing Preferential Construction Procurement Policies using Targeted Procurement Procedures

SANS 1914:2003 Targeted Construction Procurement, Parts 1 to 6, dealing with Participation of Targeted Enterprises, Joint Ventures, Targeted Labour etc.

The Department of Rural Development and Agrarian Reform Procurement Policy.

The Tender Document and the drawings shall be obtained from the Employer or his authorized representative at the physical address stated in the Tender Notice, upon payment of the deposit stated in the Tender Notice.

Clause	Data
C.1.4	The employer's agent is: S Kondlo 063 683 0652 Sonwabile.kondlo@drdar.gov.za
C.2.1	<p>Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations for a 3CE class of construction work, are eligible to have their tenders evaluated. Bidders exceeding the threshold of CIDB grade 3 in combination with any other contract awarded to the contractor which will be executed simultaneously could be regarded as non-responsive.</p> <p>Joint ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none">every member of the joint venture is registered with the CIDB;the lead partner has a contractor grading designation in the 3CE class of construction work; andthe combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation

	determined in accordance with the sum tendered for a 3CE class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.
C.2.2	The employer <u>will not</u> compensate the tenderer for any costs incurred during the tender process.
C.2.7	The arrangements for a clarification meeting are as stated in the Tender Notice and Invitation to Tender.
C.2.13.2	<p>Submit one original document completed in black ink.</p> <p>The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.</p> <p>Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Proof of posting shall not be accepted as proof of delivery.</p> <p>Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of the standard conditions of tender in this part of SANS 10845 apply equally to the extended deadline.</p>
C.2.13.5	<p>The employer's address for delivery of tender offers and identification details to be shown on each tender offer package are:</p> <p>Location of tender box: THE DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM, SCM OFFICES Corner Owen and Leeds Street, Botha Sigcawu Building, 4th Floor Mthatha, 5099.</p> <p>Physical address: SCM OFFICES Corner Owen and Leeds Street, Botha Sigcawu Building, Mthatha, 5099.</p> <p>Identification details: Reference number, title of tender and the closing date and time of the tender.</p> <p>Postal address: Department of Rural Development and Agrarian Reform Supply Chain Management Directorate Private Bag X5002 Mthatha, 5099</p>
C.2.13.9	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
C.2.15.	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
C.2.17.	<p>Additional information/clarification could be requested after closure of the bid. Non-submission / late submission of such information/clarification, could result in the bid being declared non-responsive.</p> <p>The employer may also request additional information / bank ratings, in order to establish the financial capacity of the bidder. Non-submission / late submission of such information / bank ratings, could result in the bid being declared non-responsive.</p>

C.2.16.	The tender offer validity period is 90 days									
C.2.23.	<p>The tenderer is required to submit with his tender</p> <ul style="list-style-type: none">• a Certificate of Contractor Registration issued by the Construction Industry Development Board and where a tenderer satisfies CIDB contractor grading designation requirements through joint venture formation, such tenderers must submit the Certificates of Contractor Registration in respect of each partner.• a Copy of CSD registration Proof (Active & Recently updated).• Joint Venture Agreement and Power of attorney in case of a Joint Venture.• ID certificates in case of one-man concerns.• Workman's Compensation Registration Certificate.• Documentation to proof preferential points claimed.									
C.3.4	<p>Tenders will be opened in public immediately after closing time where the name of the tenderer, the financial offer, preference points claimed and proposed period for completion will be read out loud.</p>									
C.3.11.	<p>This bid will be evaluated in Four (4) phases as follows:</p> <p>Phase One: Prequalification: Only bids of bidders adhering to the minimum CIDB grading designation, and whose CIDB registration is active on date of closure will be further considered.</p> <p>Phase Two: Compliance, responsiveness to the bid rules and conditions, thereafter they will be evaluated on PPPFA.</p> <p>NB Failure to submit all the requested documents such as , key personnel, work program etc. will result in the bid not be further considered.</p> <p>Phase Three: Bidders passing all stages above will thereafter be evaluated on PPPFA.</p> <p>PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT (PPPFA) POINTS WILL BE AWARDED AS FOLLOWS:</p> <table><tr><td>Maximum points on price</td><td>-</td><td>80 points</td></tr><tr><td>Maximum points for Specific goals</td><td>-</td><td>20 points</td></tr><tr><td>Maximum points</td><td>-</td><td>100 points</td></tr></table> <p>Important:</p> <ul style="list-style-type: none">• Failure to submit a fully completed and signed bid document such as Bill of Quantities, work program etc. will result in the bid not being further considered.• Gross calculation errors, and omissions in the Bill of Quantities, will render the bid non-responsive.• Gross under and over pricing will also render the bid as non-responsive. <p>1. <u>PHASE ONE: PRE-QUALIFICATION</u></p> <p>1. Prequalification: Only bids of bidders adhering to the minimum cidb grading designation, and who's cidb registration is active on the closing date will be considered further.</p>	Maximum points on price	-	80 points	Maximum points for Specific goals	-	20 points	Maximum points	-	100 points
Maximum points on price	-	80 points								
Maximum points for Specific goals	-	20 points								
Maximum points	-	100 points								

2. PHASE TWO: RESPONSIVENESS TO THE BID REQUIREMENTS AND RULES

A. Bidders' proposals must meet the following minimum requirements and supporting documents must be submitted with the completed bid document in a sealed envelope in the bid box at the closing date and time. Failure to comply will automatically eliminate the bid for further consideration:

1. Bid Document (This Document must be submitted in its original format)
2. Bids which are late, incomplete, unsigned or submitted by facsimile or electronically, will not be accepted.
3. Bidder must be registered with CIDB in the correct grading and class of works as per the tender notice and requirements. And must the status on CIDB be active during award stage. It is the responsibility of the bidder to keep the status on CIDB active throughout bidding process (advert till award stage).
4. Bidders must be a legal entity or partnership or joint venture or consortia.
5. Form of offer and Acceptance (fully completed and signed)
6. SBD 4- Declaration of Interest (fully completed and signed)
7. Compulsory Enterprise Questionnaire (Completed and signed)
8. Bid price must be all inclusive of all applicable taxes. Bidders are not entitled to claim the VAT if they are not VAT registered.
9. Certificate of Authority for Joint Ventures (if applicable). In the case of a joint venture, a signed JV agreement stating the share interest or percentage of each partner should also be made available to the department by the JV.
10. Resolution to Sign (if applicable)
11. Attendance of compulsory briefing meeting (where applicable)
12. Only one offer per item per bidder is allowed and alternative offers will not be considered. If more than one offer per item is received, none of the offers will be considered. Bidders are also not allowed to submit a bid/ quotation whilst they are in agreements with other bidders in the form of joint ventures or consortiums.
13. This tender will be awarded as a whole. All trades listed in the Bills of Quantities or Pricing schedule must be priced for (except provisional sums and allowances), failure to do so will result increase commercial risk of the bid and may lead to elimination or passing over of the bidder.
14. Past experience reports (Refer to Annexure K and H)
15. List of Key personnel and their CVs
16. Work program

B. Other Conditions of bid/ Non eliminating

1. DRDAR Policy applies.
2. Returnable Schedule: SBD1 – Invitation to bid must be completed and signed
3. The bidder must be registered on the Central Supplier Database (CSD) prior the award
4. All bidders' tax matters must be in order prior award. Bidders' tax matters will be verified through CSD.
5. Declaration of Employees of the State or other State Institutions.
6. Bidders must submit a minimum of three (3) written contactable references for projects successfully completed in the past (clearly indicating client name, contract value, contract term, contact person, contact details). Refer to Annexure I and Annexure M. This is not an elimination factor, but important for the department to make a decision. Unless it is used for Quality/functionality Points.
7. Bidders must submit a list of projects where he or she has submitted tender offers but tender results have not been confirmed by the client.
8. Bidders must submit their company profiles, list of available resources, plant and machinery and any other additional capacity with the bid.. This is not an elimination factor, but important for the department to make a decision. Unless it is used for Quality/functionality Points.
9. The bidder must also list all projects where there are pending litigations or litigations have been concluded. The form for this is also attached after Annexure J.
10. Bidders submit al the required documented proof to validate the preferential points claimed on SBD 6.1. (Refer to Point 9 of the Tender Notice)
11. The Department will contract with the successful bidder by signing a formal contract.

12. This tender will be awarded as a whole. All trades listed in the Bills of Quantities or Pricing schedule must be priced for (except provisional sums and allowances which also need to be added to the total), failure to do so will increase commercial risk of the bid and may lead to elimination or passing over of the bidder.
13. Wherever a brand name is specified in this document (i.e. specifications, pricing schedule, bill of quantities or anywhere), the department requires an item similar/equivalent or better.

3. PHASE THREE: EVALUATION POINTS ON PRICE AND REGULATIONS OF 2022

The **80/20 preference point system** shall be applied for the purposes of this bid as per the requirements of the *Preferential Procurement Policy Framework Act, 2000* (Act No. 5 of 2000) and SPECIFIC GOALS/ PPPFA Regulations of 2022

Criteria	Points
POINTS ON PRICE	80
SPECIFIC GOALS	20
TOTAL	100

The 80/20 preference point system for acquisition of services, works or goods up to Rand value of R50 million:

- (a) The following formula must be used to calculate the points for price in respect of tenders (including price quotation) with a Rand value equal to, or above R 30 000 and up to Rand value of R 50 000 000 (all applicable taxes included):

The financial offer will be scored using the following formula:

$$A = (1 - \frac{P - P_m}{P_m})$$

P_m

The value of value of W_1 is:

- 1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R 50 000 000 or
- 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers have a value that equals or is less than R 50 000 000.

C.3.13.

Tender offers will only be accepted if:

- a) the tenderer is registered on the Central Supplier Database (CSD) for the South African government (see <https://secure.csd.gov.za/>) unless it is a foreign supplier with no local registered entity
- b) the tenderer is in good standing with SARS according to the Central Supplier Database. Bidders must submit a CSD no. or tax status compliance pin.
- c) the preferred tenderer will be required to submit an approved insurer undertaking to provide the Performance Bond / Guarantee / Surety / Security to the format and/or standard as per contract data.
- d) the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation;
- e) the tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
- f) the tenderer has not:
 - i) abused the Employer's Supply Chain Management System; or

- ii) failed to perform on any previous contract and has been given a written notice to this effect;
- g) the tenderer has completed the Compulsory Declaration and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process;
- h) the tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process and persons in the employ of the state are permitted to submit tenders or participate in the contract;
- i) Bids which are late, incomplete, unsigned or submitted by facsimile or electronically will not be accepted.
- j) the tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer;
- k) The tenderer undertakes to maximize the sourcing of building material or infrastructure input material from Eastern Cape based suppliers or manufacturers.
- l) the employer is reasonably satisfied that the tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely.
- m) A Resolution of signatory form has been completed and signed by director/s or a letter bearing a letterhead of the tenderer has been attached (specific to this bid) to the bid submission; it must be duly signed by all directors and submitted the bid. Only a duly authorized official can sign the bid.
- n) Prospective bidders must register on CSD prior submitting bids (open tenders). Any prospective bidder found to have Tax matters not in order with SARS (verified through CSD) during the evaluation process (after being given an opportunity to rectify tax matters) will be eliminated and not be considered further in the process. Preferred bidder/s will be afforded an opportunity to rectify their tax affairs within 7 days. A bidder that fails to rectify its tax matters with SARS will be eliminated.
- o) **NOTE:** The amount reflected on the Form of Offer and Acceptance takes precedence over any other total amount indicated elsewhere in bidder's tender submission. If the Form of Offer and Acceptance has no value or figure, the bidder will be regarded as having made no offer.
- p) The department reserves the right not to award the bid to the most favorable tenderer, if any of the situations occur: if it is not assisting in the advancement of designated groups; risk profile of the favorable firm is too high; the bidder has been awarded a considerable number of projects by the department or provincial government; has performed unsatisfactorily in the past, etc.
- q) Documents required for the specific goals:

No	Specific Goals	Documentation to be submitted by bidders to validate their claim for points
1	An EME or QSE which is at least 51% owned by black people	<ul style="list-style-type: none"> ID Copy CIPC (Company registration) CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)
2	Located in the Province where the services will be rendered/ item delivered.	<ul style="list-style-type: none"> Municipal rates account OR Letter from councilor confirming residence OR Lease Agreement
3	An EME or QSE which is at least 51% owned by women	<ul style="list-style-type: none"> ID Copy CIPC (Company registration) CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)

	4	An EME or QSE which is at least 51% owned by youth (up to 35 years of age)	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration) • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points)
	5	An EME or QSE which is at least 51% owned by people with disability	<ul style="list-style-type: none"> • ID Copy • CIPC (Company registration) • CSD report (the ownership status of the 2 documents must correspond in order to be awarded points) • Medical certificate • SASSA registration or confirmation of disability from a relevant authority.
C.3.17.	The number of paper copies of the signed contract to be provided by the employer is one.		

T1.3 STANDARD CONDITIONS OF TENDER

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement (August 2019). (See www.cidb.org.za).

C.1 General

C.1.1 Actions

C.1.1.1 The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

C.1.1.2 The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note: 1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.

2) Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.

C.1.1.3 The employer shall not seek and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

C.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

C.1.3 Interpretation

C.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

C.1.3.2 These conditions of tender, the tender data and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.

C.1.3.3 For the purposes of these conditions of tender, the following definitions apply:

- a) **conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfill his or her duties impartially;
 - ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or

- iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee.
- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional discounts it can be utilised to have been taken into consideration;
- c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process;
- d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels;

C.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only, and in a form that can be readily read, copied and recorded. Communications shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

C.1.5 Cancellation and Re-Invitation of Tenders

C.1.5.1 An employer may, prior to the award of the tender, cancel a tender if-

- a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
- b) funds are no longer available to cover the total envisaged expenditure; or
- c) no acceptable tenders are received.
- d) there is a material irregularity in the tender process.

C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised

C.1.5.3 An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

C.1.6 Procurement procedures

a) C.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to C.3.13, be concluded with the tenderer who in terms of C.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

b) C.1.6.2 Competitive negotiation procedure

C.1.6.2.1 Where the tender data require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of C.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of C.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

C.1.6.2.2 All responsive tenderers or at least a minimum of not less than three responsive tenderers that are highest ranked in terms of the evaluation criteria stated in the tender data shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information.

Notwithstanding the provisions of C.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

C.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.

C.1.6.2.4 The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after tenderers have been requested to submit their best and final offer.

c) C.1.6.3 Proposal procedure using the two stage-system

C.1.6.3.1 Option 1

Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the tender data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.

C.1.6.3.2 Option 2

C.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.

C.1.6.3.2.2 The employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender data, and award the contract in terms of these conditions of tender.

C.2 Tenderer's obligations

C.2.1 Eligibility

C.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

C.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

C.2.2 Cost of tendering

C.2.2.1 Accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

C.2.2.2 The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

C.2.3 Check documents

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

C.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

C.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

C.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

C.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

C.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five (5) working days before the closing time stated in the tender data.

C.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

C.2.10 Pricing the tender offer

C.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable fourteen (14) days before the closing time stated in the tender data.

C.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

C.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

C.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

C.2.11 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

C.2.12 Alternative tender offers

C.2.12.1 Unless otherwise stated in the tender data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

C.2.12.2 Accept that an alternative tender offer must be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

C.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning tender.

C.2.13 Submitting a tender offer

C.2.13.1 Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

C.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

C.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

C.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

C.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

C.2.13.6 Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

C.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

C.2.13.8 Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

C.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

C.2.14 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.

C.2.15 Closing time

C.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

C.2.15.2 Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

C.2.16 Tender offer validity

C.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

C.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

C.2.16.3 Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).

C.2.16.4 Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".

C.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: *Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.*

C.2.18 Provide other material

C.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), referencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment.

Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

C.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

C.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

C.2.20 Submit securities, bonds and policies

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

C.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

C.2.22 Return of other tender documents

If so instructed by the employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the tender data.

C.2.23 Certificates

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

C.3 *The employer's undertakings*

C.3.1 Respond to requests from the tenderer

C.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all tenderers who collected tender documents.

C.3.1.2 Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

- a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
- b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

C.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three (3) working days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who collected tender documents.

C.3.3 Return late tender offers

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

C.3.4 Opening of tender submissions

C.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

C.3.4.2 Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices, number of points claimed for its specific goals and time for completion for the main tender offer only.

C.3.4.3 Make available the record outlined in C.3.4.2 to all interested persons upon request.

C.3.5 Two-envelope system

C.3.5.1 Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

C.3.5.2 Evaluate functionality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the functionality evaluation more than the minimum number of points for functionality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any points claimed based on specific goals set out by the department. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for functionality.

C.3.6 Non-disclosure

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

C.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

C.3.8 Test for responsiveness

C.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

C.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

Important:

- **Failure to submit a fully completed and signed bid document such as Bill of Quantities, work program etc. will result in the bid not being further considered.**
- **Gross calculation errors, and omissions in the Bill of Quantities, will render the bid non-responsive.**
- **Gross under and over pricing will also render the bid as non-responsive.**

C.3.9 Arithmetical errors, omissions and discrepancies

C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

C.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the pricing schedule or bills of quantities; or c) arithmetic errors in:
 - (i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or (ii) the summation of the prices.

C.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

C.3.9.4 Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

- a) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

C.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

C.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish

the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:	
Requirement	Qualitative interpretation of goal
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.
Equitable	Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
Transparent	The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.
Competitive	The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.
Cost effective	The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and least resources to effectively manage and control procurement processes.

The activities associated with evaluating tender offers are as follows:

- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- g) Prepare a tender evaluation report
- h) Confirm the recommendation contained in the tender evaluation report

d) C.3.11.1 General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data.

C.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

C.3.13 Acceptance of tender offer

Accept the tender offer; if in the opinion of the employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;

- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the tender data; and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.
- g)

C.3.14 Prepare contract documents

C.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the employer and the successful tenderer.

C.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

C.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

C.3.16 Registration of the award

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the cidb Register of Projects.

C.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

C.3.18 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

PART T2 - RETURNABLE DOCUMENTS

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL
FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA
AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT**

T2.1 List of Returnable Documents

The tenderer must complete the following returnable documents:

1 Returnable Schedules required only for tender evaluation purposes

- Certificate of authority for joint ventures (where applicable)
- Compulsory Enterprise Questionnaire
- Record of Addenda to Tender Documents
- Proposed Amendments and Qualifications
- Schedule of Subcontractors
- Schedule of Plant and Equipment
- Schedule of the Tenderer's Experience
- Schedule of current projects

2 Other documents required only for tender evaluation purposes

- Proof of registration on the CSD and copy of active and updated certificate attached.
- Certificate of Contractor Registration issued by the Construction Industry Development Board.
- Documented proof of points claimed for Specific goals.

3 Returnable Schedules that will be incorporated into the contract

- Preferencing Schedule SBD 6.1

4 Other documents that will be incorporated into the contract

- Declaration of validity of information.
- Declaration of Interest - SBD 4.
- POPI – Consent Form
- Certificate of tenderer's visit to site.
- Tenderer's financial standing.
- Surety and Bank details.
- Form of intent to provide a Performance Guarantee.
- Key personnel for project.
- Curriculum Vitae of key personnel.
- Preliminary Construction Programme.
- Alteration by tenderer.
- Contractor's Health and Safety declaration.
- Contractor's Health and Safety Plan.

5 The offer portion of the C1.1 Offer and Acceptance

6 C1.2 Contract Data (Part 2)

7 C2.2 Bills of quantities

CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms
....., authorised signatory of the company
....., acting in the capacity of lead partner, to sign all documents
in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature Name Designation
		Signature Name Designation
		Signature Name Designation
		Signature Name Designation

COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.			
Section 1:		Name of enterprise: _____	
Section 2:		VAT registration number, if any: _____	
Section 3:		cidb registration number, if any: _____	
Section 4:		CSD number: _____	
Section 5: Particulars of sole proprietors and partners in partnerships:			
Name*		Identity number*	Personal income tax number*
* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners			
Section 6: Particulars of companies and close corporations			
Company registration number: _____			
Close corporation number: _____			
Tax reference number: _____			
Section 7: SBD4 issued by National Treasury must be completed for each tender and be attached as a tender requirement.			
Section 8: SBD 6 issued by National Treasury must be completed for each tender and be attached as a tender requirement.			
The undersigned, who warrants that he / she is duly authorized to do so on behalf of the enterprise:			
i) Authorize the employer to verify the tenderers tax clearance status from the South African Revenue Service that it is in order;			
ii) Confirms that neither the name of the enterprise or the name of any partner, manager, director or any other person, who wholly or partly exercises or may exercise control over the enterprise, appears on the Register of Tender Defaulters established in terms of the Prevention and combating of Corruption Activities Act of 2004;			
iii) Confirms that no partner, manager, director or any other person, who wholly or partly exercises or may exercise control over the enterprise, has within the last five years been convicted of fraud or corruption;			
iv) Confirms that I/we are not associated, linked or involved with any other rendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and			
v) Confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.			
Signed		Date	
Name		Position	
Enterprise name			

RECORD OF ADDENDA TO TENDER DOCUMENTS

The undersigned confirm that the following communications received from the employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

Attach additional pages if more space is required.

Signed		Date	
Name		Position	
Tenderer			

PROPOSED AMENDMENTS AND QUALIFICATIONS

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

The Tenderer's attention is drawn to clause C.3.8 of the Standard Conditions of Tender referenced in the Tender Data regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

Signed Date

Name Position

Tenderer

SCHEDULE OF PROPOSED SUBCONTRACTORS

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

	Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor.
1.			
2.			
3.			
4.			
5.			

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

SCHEDULE OF PLANT AND EQUIPMENT

The following are lists of major items of relevant equipment that I / we presently own or lease and will have available for this contract or will acquire or hire for this contract if my / our tender is accepted.

- (a) Details of major equipment that is owned by and immediately available for this contract.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

- (b) Details of major equipment that will be hired, or acquired for this contract if my / our tender is acceptable.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed Date

Name Position

Tenderer

SCHEDULE OF THE TENDERER'S EXPERIENCE

The following is a statement of similar work in respect of this tender successfully executed by myself / ourselves during the past three (3) years:

Employer, contact person and telephone number.	Description of contract	Value of work inclusive of VAT (Rand)	Date contract started	Date contract completed (Date on Completion Certificate)

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

SCHEDULE OF CURRENT PROJECTS

Tenderers must submit a max one-page description of all projects under construction/ on hold/ just handed over/ towards completion (if they exist). **Attach an Appointment letter for each of the project provided.**

The description of each project must include the following information:

1. Essential introductory information:
 - 1.1. Name of project.
 - 1.2. Name of client.
 - 1.3. Contact details of client.
 - 1.4. Contact details (including telephone numbers and email addresses) of currently contactable references.
 - 1.5. The period during which the project was performed, and also, if this is different, the period during which the tenderer's team members were contracted.
 - 1.6. Cost of works and/or contract value (making it clear in broad terms what this cost/value purchased, and to what extent (if any) this cost/value was part of a larger project budget or programme budget).

NO.	NAME OF PROJECT.	NAME OF CLIENT.	CONTACT DETAILS OF CLIENT.	PROJECT VALUE	STAGE OF PROJECT
1					
2					
3					

Attach a separate page to address this issue (the above table is just for reference purposes).

The undersigned, who warrants that she/ he is duly authorised to do so on behalf of the enterprise, confirms that the content of this schedule that presented by the tenderer are within my personal knowledge and are to the best of my knowledge both true and correct.

Signed _____ Date _____

Name _____ Position _____

Enterprise name _____

CONTRACTORS CERTIFICATE OF REGISTRATION ON CSD

[The tenderer shall submit the Contractor's Certificate of Registration on the CSD. Failure to submit the certificate with the tender document will lead to the conclusion that the tenderer is not registered on the National Treasury Central Suppliers Database and therefore not eligible to tender].

CONTRACTORS CERTIFICATE OF REGISTRATION WITH CIDB

[The tenderer shall submit the Contractor's Certificate of Registration with CIDB. Failure to submit the certificate with the tender document will lead to the conclusion that the tenderer is not registered with the CIDB and therefore not eligible to tender].

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the **80/20** preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
(b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20	or	90/10
$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) \text{ or } Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$		

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
An EME or QSE which is at least 51% owned by black people	N.A.	5		
Located in the Province where the services will be rendered/ item delivered.	N.A.	2		
An EME or QSE which is at least 51% owned by women	N.A.	7		
An EME or QSE which is at least 51% owned by youth (up to 35 years of age)	N.A.	4		
An EME or QSE which is at least 51% owned by people with disability	N.A.	2		
Total	N.A.	20		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....	
SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:	.....
DATE:	.....
ADDRESS:	.....

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise,
employed by the state? YES/NO

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

1.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? YES/NO

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? YES/NO

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.

3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM

BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT

POPI - CONSENT FORM

Contractor/Service Provider/Supplier:	
Bid/Quotation No.:	
Project Description:	
Duration of Contract:	
Contract Value:	

CONSENT TO PROCESS PERSONAL INFORMATION IN TERMS OF THE PROTECTION OF PERSONAL INFORMATION ACT, NO. 4 OF 2013 (POPIA)

The purpose of the POPIA is to protect personal information of individuals and businesses and to give effect to their right of privacy as provided for in the Constitution. By signing this form, you consent to your personal information to be processed by the Department of Rural Development and Agrarian Reform (DRDAR) and consent is effective immediately and will remain effective until such consent is withdrawn.

1. I a natural person "herein referred to as the Data Subject" with ID No..... hereby give my consent to the DRDAR "herein referred to as the Responsible Party" to collect, process and distribute my personal information where DRDAR is legally required to do so.
2. I understand my right to privacy and the right to have my personal information processed in accordance with the conditions for the lawful processing of personal information.
3. I understand the purposes for which my personal information is required and for which it will be used and consent to third parties accessing my personal information and to DRDAR sharing my personal information strictly for reporting purposes.
4. I understand that, should I refuse to provide DRDAR with the required consent and/ or information, the DRDAR will be unable to assist me.
5. I declare that all my personal information supplied to DRDAR is accurate, up to date, not misleading and that it is complete in all respects and will be held and/ or stored securely for the purpose for which it was collected and that I will immediately advise DRDAR of any changes to my Personal Information should any of these details change.

6. I also understand that I have the right to request that my personal information be corrected or deleted, if it is inaccurate, irrelevant, excessive, out of date, incomplete, misleading, or obtained unlawfully or that the personal information or record be destroyed or deleted if the responsible party is no longer authorized to retain it.

Signed at..... On this day of20...

.....

Signature of data subject/ designated person

.....
Name & Surname/Departmental Responsible Party

.....
Signature

CERTIFICATE OF TENDERER'S VISIT TO SITE

This is to certify that, I

representative of (tenderer)

.....

.....

of (address)

.....

.....

.....

Telephone number:

Fax number:

in the company of (Engineer's representative)

visited and examined the site on (date)

I further certify that I have made myself familiar with all local conditions likely to influence the work and the cost thereof, that I am satisfied with the description of the work and the explanations given by the said Engineer's Representative and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

TENDERER'S REPRESENTATIVE: (Signature).....

(Name).....

ENGINEER'S REPRESENTATIVE: (Signature).....

(Name).....

FORM OF INTENT TO PROVIDE A PERFORMANCE GUARANTEE

[The tenderer must provide a letter from the bank or institution. with whom he has made the necessary arrangements, to the effect that the said bank or institution will be prepared to provide the required performance guarantee when asked to do so].

KEY PERSONNEL

In terms of the Project Specification and the Conditions of Tender, unskilled workers may only be brought in from outside the local municipality if such personnel are not available locally.

The tenderer shall list below the personnel, which he intends to utilise on the Works, including key personnel, which may have to be brought in from outside if not available locally.

EMPLOYEE SKILLS TEAM No ____	NUMBER OF PERSONS			
	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION	KEY PERSONNEL TO BE IMPORTED IF NOT AVAILABLE LOCALLY	UNSKILLED PERSONNEL TO BE RECRUITED FROM LOCAL COMMUNITY	YEARS EXPERIENCE
Director				
Contracts Manager				
Site Agent				
Skilled Worker				
Semi-skilled Worker				
Unskilled Worker				
Other				
Other				
Other				
Other				
Other				

DATE **SIGNATURE OF TENDERER**

(of person authorised to sign on behalf of the Tenderer)

CURRICULUM VITAE OF KEY PERSONNEL

[illegible]

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes my qualifications, my experience and me.

DATE **SIGNATURE OF DIRECTOR**

DATE SIGNATURE OF TENDERER
(of person authorised to sign on behalf of the Tenderer)

PRELIMINARY CONSTRUCTION PROGRAM

The tenderer shall submit a preliminary program reflecting the proposed sequence and duration of the various activities comprising the work for this Contract to include the projected cash flow for each activity. The program shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of his tender.

[Note: The program must be based on the completion time as specified in the Contract Data.]

Schedule	Abbreviated description	Days per action	Cumulative project construction days
1	Site Establishment		
2	Earthworks by removing topsoil, excavation for the structure and concrete boxes		
3	Placing G5 material and compacting the area to be fitted with the structure		
4	Placing of damp proof membrane		
5	Excavation for concrete box and casting of Reinforced concrete block 500mm x 500mm x 500mm		
6	Drainage channel		
7	Construction of Pump cage and tank stand		
8	Supply and deliver of hail nets, smart boxes and pump		
9	Supply and deliver of steel tubing structure		
10	Irrigation system together with 5000 L Eco Tanks and connection of water		
11	Electrification for pump operation		
12	De-establishment and clean the site		

PROPOSED CONSTRUCTION PERIOD _____ WEEKS

DATE . _____ SIGNATURE OF TENDERER . _____
(of person authorised to sign on behalf of the Tenderer)

BASELINE RISK ASSESSMENT

PROJECT TITLE	BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISCTRICT
TENDER NUMBER	PES 3 -24/25-0016C
PLEASE NOTE THAT THIS IS A BASELINE RISK ASSESSMENT AND NOT A DETAILED RISK ASSESSMENT OF ALL ANTICIPATED ACTIVITIES ON SITE	

Activity	Risk to Safety	Risk to Health	Risk to Environmental	Risk to Public Safety	Control Measures
<i>Working at height of 2-9m</i>	<i>Medium</i>	<i>Low</i>	<i>N.A.</i>	<i>Low</i>	<i>Make use of appropriate scaffolding and ladders.</i>
<i>Working in single story roof</i>	<i>Medium</i>	<i>Low</i>	<i>N.A.</i>	<i>Low</i>	<i>Make use of appropriate safety gear.</i>
<i>Excavations of up to 1.5m</i>	<i>Medium</i>	<i>Low</i>	<i>N.A.</i>	<i>Medium</i>	<i>Barricade excavation areas.</i>
<i>Movement of machinery and vehicles on site</i>	<i>Low</i>	<i>Low</i>	<i>N.A.</i>	<i>Medium</i>	<i>Fence site, and put access control measures in place.</i>

You can list all activities on a separate page to address this issue (the above table is just for reference purposes).

<p>Signed</p> <p>_____</p> <p>Name</p> <p>_____</p> <p>Enterprise name</p> <p>_____</p>	<p>Date</p> <p>_____</p> <p>Position</p> <p>_____</p>
--	---

ALTERATIONS BY TENDERER

Should the tenderer desire to make any departure or modification to the General Conditions of Contract, Special Conditions of Contract, Specifications, Schedule of Quantities or Drawings, or to qualify his tender in any way, he shall set out his proposals clearly hereunder, or alternatively, state them in a covering letter attached to his tender and referred to hereunder, failing which the tender will be deemed to be unqualified.

[illegible]

DATE.. **SIGNATURE OF TENDERER**

(of person authorised to sign on behalf of the tenderer)

CONTRACTORS HEALTH AND SAFETY DECLARATION

In terms of Clause 5(1)(h) of the OHSA 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2014. To that effect a person duly authorised by the tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2014.
2. I hereby declare that my company has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby confirm that adequate provision has been made in my tendered rates and prices in the Bill of Quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2014, including the cost of the specific items listed in the tables hereafter.

(Tables to be completed by tenderer)

TABLE 1: COST OF SAFETY PERSONNEL

PERSONNEL	COSTS AS ALLOWED IN TENDER	NOMINATED PERSON/S
Construction Supervisor		
Construction Safety Officer		
Health and Safety		
Health and Safety Committee		

TABLE 2: COST OF SAFETY EQUIPMENT

EQUIPMENT	STATE YES or NO	COST ALLOWED FOR IN TENDER
Hard hats		
Safety boots		
Add items as per risk assessment:		

4. I hereby undertake, if my tender is accepted, to provide, before commencement of the works under the contract, a suitable and sufficiently documented Health and Safety Plan in accordance with Regulation 7(1)(a) of the Construction Regulations, which plan shall be subject to approval by the Employer.
5. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHSA 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
6. I hereby confirm that, I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations (Regulation 33) for failure on the Contractor's part to comply with the provisions of the Act and the Regulations.

7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHS 1993 Construction Regulations 2014, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.

DATE **SIGNATURE OF TENDERER**
(of person authorised to sign on behalf of the Tenderer)

CONTRACTORS HEALTH AND SAFETY PLAN

[Not applicable for tender purposes]

[The successful Tenderer, only, shall be required to submit the Contractor's Health and Safety Plan as required in terms of Regulation 7 of the Occupational Health and Safety Act 1993 Construction Regulations 2014, and referred to in T2.1, List of Returnable Documents point 4 (other documents that will be incorporated into the contract) after acceptance of the tender]

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 1

Project title:	BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT
Project Number:	PES 3-24/25-0016C

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of
 _____ (company name) declare
 that I was the Project Manager on the following building construction project successfully executed by
 _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

- Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
1. Project performance						
2. Quality of Service						
3. Resources: Personnel						
4. Time management / programming						
5. Financial management / Project budget management/cash flow, etc.						
TOTAL						

- Would you consider / recommend this tenderer again:

YES	NO

- Any other comments:

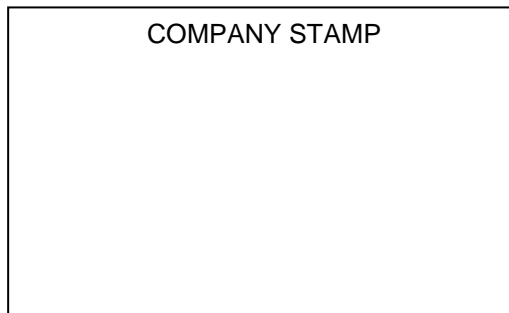
- My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20____

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 2

Project title:	BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT
Project Number:	PE 3-24/25-0016C

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of
 _____ (company name) declare
 that I was the Project Manager on the following building construction project successfully executed by
 _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

- Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
1. Project performance						
2. Quality of Service						
3. Resources: Personnel						
4. Time management / programming						
5. Financial management / Project budget management/cash flow, etc.						
TOTAL						

1. Would you consider / recommend this tenderer again:

YES	NO

2. Any other comments:

3. My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20____

Signature of principal agent



NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

EVALUATION SCHEDULE 1 – PROJECT REFERENCE FORMS - 3

Project title:	BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT
Project Number:	PES 3-24/25-0016C

NOTE: This returnable document must be completed by the person who was the Engineer/Project Manager on a project of similar value and complexity that was completed successfully by the tenderer.

I, _____ (name and surname) of
 _____ (company name) declare
 that I was the Project Manager on the following building construction project successfully executed by
 _____ (name of tenderer):

Project name: _____

Project location: _____

Construction period: _____ Completion date: _____

Contract value: _____

4. Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting "Yes" in the relevant box below:

Key Performance Indicators	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Total
1. Project performance						
2. Quality of Service						
3. Resources: Personnel						
4. Time management / programming						
5. Financial management / Project budget management/cash flow, etc.						
TOTAL						

1. Would you consider / recommend this tenderer again:

YES	NO

2. Any other comments:

3. My contact details are:

Telephone: _____ Cellphone: _____ Fax: _____

E-mail: _____

Thus signed at _____ on this _____ day of _____ 20____

Signature of principal agent

COMPANY STAMP

NOTE:

If reference cannot be verified due to the inability to get hold of the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points. It is the responsibility of the tenderer to put referees who are reachable.

Name of Tenderer

Signature of Tenderer

The Contract

PART C1: AGREEMENT AND CONTRACT DATA

C 1.1

Form of Offer and Acceptance

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN
MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO
DISCTRICT**

C1.1 Form of Offer and Acceptance

Note: 1 This form of offer and acceptance is identical to that contained in Annex F of SANS 10845 - 1: Construction Procurement Processes, Procedures and Methods.

2 SAICE's Practice Manual #1, The use of South African National Standards in Construction Procurement, provides guidance on the formulation of the wording for the actual offer where it is not based on the offered total of prices.

Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **PES-24/25-0016C: BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISCTRICT** The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS.....

..... Rand (in words);

R (in figures) (or other suitable wording)

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature(s)		Date:	
Name(s)			
Capacity:			
For tenderer: (Name and address)			
Name & Signature of witness:		Date:	

ACCEPTANCE

By signing this part of this form of offer and acceptance, the employer identified below accepts the tenderer's offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the tenderer's offer shall form an agreement between the employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

Part C1 Agreements and contract data, (which includes this agreement)

Part C2 Pricing data

Part C3 Scope of work

Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the returnable schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this form of offer and acceptance. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five (5) working days of the date of such receipt notifies the employer in writing of any reason why he/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature(s)		Date:	
Name(s)			
Capacity:			
For the employer: (Name and address)			
Name & Signature of witness:		Date:	

SCHEDULE OF DEVIATIONS

Notes:

- 1. *The extent of deviations from the tender documents issued by the employer before the tender closing date is limited to those permitted in terms of the conditions of tender.*
- 2. *A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.*
- 3. *Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.*
- 4. *Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.*

1 Subject _____

Details: _____

2 Subject _____

Details: _____

3 Subject _____

Details: _____

4 Subject _____

Details: _____

By the duly authorised representatives signing this agreement, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

For the Tenderer:

..... Signature

..... Name

..... Capacity

For the Employer:

.....

.....

.....

Name and address of organization:

.....

.....

.....

.....

.....

.....

Name and address of organization:

.....

.....

.....

Witness Signature

.....

Witness Name

.....

Date

.....

CONFIRMATION OF RECEIPT

The Tenderer, (now Contractor), identified in the form of Offer part of the Agreement, hereby confirms receipt from the Employer. Identified in the Acceptance part of the Agreement, of one fully completed original copy of this Agreement. Including the Schedule of Deviations (if any) today:

The(day) of (month) 20.....(year), at

..... (place)

For the Contractor:

Signature:

Name:

Capacity:

Signature and name of witness:

Signature:

Name:

C 1.2

Contract Data

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN
MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO
DISCTRICT**

C1.2 Contract Data

The General Conditions of Contract for Construction Works (2015) published by the South African Institution of Civil Engineering, is applicable to this contract. Copies of these conditions of contract may be obtained from the South African Institution of Civil Engineering (Tel 011-805 5947).

The General Conditions of Contract for Construction Works make several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the general conditions of contract.

The Contract Data and General Conditions of Contract shall have precedence over the Drawings, Scope of Work and Standardised Specifications in the interpretation of any ambiguity or inconsistency.

Contract Specific Data

The following contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition, 2015, are applicable to this Contract:

Clause	Data
1.1.1.5	"Commencement Date" means the date the Contractor is given right of access to site (Site handover date)
1.1.1.13	The Defects Liability Period is 90 days .
1.1.1.14	The time for achieving Practical Completion is 15 Weeks , inclusive of the 14day period referred to in Clause 5.3.2 below, and inclusive of non-working days referred to in Clause 5.8.1 below, but exclusive of special non-working days (Clause 5.8.1).
1.1.1.15	The name of the Employer is DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
1.1.1.16	The name of the Employer's Agent is Mr. M. T. Kondlo (Chief Engineer – DRDAR)
1.1.1.17	The name of the Employer's Agent Representative is Mr S Somhlahlo .
1.1.1.26	The Pricing Strategy is Re-measurement Contract

1.1.1.34	“writing” means any hand-written typed or printed communication (comprising words, figures or drawings) including electronic communication through means of email, but excluding communication via social media (WhatsApp, Facebook etc.) resulting in a permanent record. “In writing” and “written” shall have corresponding meaning.
1.1.1.35	“ Drawings ” means all drawings, calculations and technical information forming part of the Contract Documents and any modifications thereof or additions thereto from time to time approved in writing by the Employer’s Agent or delivered to the Contractor by the Employer’s Agent.
1.1.1.36	Letter of Notification ” means the letters of formal notification, signed by the Employer, of the decision of the Supply Chain Management Bid Adjudication Committee sent to all tenderers. The notification of the decision does not form part of the Employer’s Acceptance of the successful tenderer’s Offer and no rights shall accrue.
1.2.1	DELIVERY OF NOTICES The following three additional sub-clauses, covering alternative methods of communication, apply: -
1.2.1.3	Sent by electronic post (e-mail) between parties to the email addresses listed during the site handover meeting.
1.2.1.4	Posted to the addressee for certified delivery by the postal Authorities The Chief Engineer OR Tambo District Private Bag X5002 Mthatha, 5099
1.2.1.5	Delivered by a courier service and signed for by the addressee
1.2.1.2	The Employer's address for receipt of communications is: The Chief Engineer DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM OR Tambo District Corner Owen and Leeds Street, Botha Sigcawu Building Mthatha 5099

2.1.4	<p>The following additional clause applies: -</p> <p>"Without limiting the generality of the afore going, the Schedule of Rates and Prices shall include:</p> <ul style="list-style-type: none"> (a) The provision and use of all labour, plant, tools instruments, templates, materials, transport and all other appliances that may be required for satisfactorily protecting and efficiently carrying out the works without interruption or delay. (b) The provision and housing of adequate staff and labour force and the provision of false work of every kind and description necessary for the due and proper performance of the Contract. (c) The execution of the Works in orderly and progressive manner until it has been completed. Time being of the essence of the Contract the progressive development of the Works shall be arranged so that the time from the start to the finish of the construction of the said Works shall not exceed the time laid down in the Tender. (d) The inclusion in the tendered rates for all and any of the general liabilities such as Establishment Charges, legal contingencies, regulations, risks or damage, Royalties and all other overhead charges. <p>The submission of a tender shall be considered prima facie evidence that the Contractor has complied with the requirements of this clause and has satisfied him/herself as to all circumstances and local conditions which may influence or affect his Tender."</p>
2.4.1	<p>The following additional clause applies: -</p> <p>In the event of any discrepancy or conflict between any parts of the Contract Documents, the order of precedence shall be as follows:</p> <ul style="list-style-type: none"> 1. Project Particular Specifications 2. Special Conditions of Contract 3. General Conditions of Contract 4. Conditions of Tender 5. Generic Specifications 6. Contract Drawings 7. Bill of Quantities
3.2.3	<p>The Employer's Agent shall obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract:</p> <ul style="list-style-type: none"> Clause 3.3.1 Nomination of Employer's Agent Representative Clause 3.3.4 Employer's Agent authority to delegate Clause 5.8.1 Non-working times Clause 5.11.2 Suspension of the Works Clause 5.12.4 Acceleration instead of extension of time
3.3.7	<p>The following additional clause applies: -</p> <p>The onus rests with the Contractor to raise any item about which the Contractor may be uncertain, with the Engineer's Representative. Any advice given to the Contractor by the Engineer's Representative in response to matters so raised shall not be construed as instructions and shall be held to have been given without prejudice.</p>

3.3.8	<p>The following additional clause applies: -</p> <p>The Employer or the Employer's Agent under delegated authority, reserves the right to obtain the services of consultants on any matter pertaining to this contract; the employment of such consultants forms no part of this contract; a consultant's advice and/or documentation is to be followed only if the Employer's Agent or the Employer's Agent Representative so instructs.</p>
4.1	<p>All references to "design" are deemed to be deleted and the Contractor shall bear no liability in respect of the Projects design, other than the temporary works and items clearly indicated to design on drawings and the Project Particular Specifications.</p>
4.3.3	<p>The following additional clause applies: -</p> <p>The Employer and the Contractor shall enter into an agreement to complete the work required for the construction of the works in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations promulgated there under.</p> <p>An agreement is included in the Contract Document (at the end of Contract Data) and shall be completed and submitted to the Employer together with a letter of good standing from the Compensation Commissioner (if not insured with a Licensed Compensation Insurer) within fourteen (14) days after the Commencement Date. The Contractor shall ensure that any letter of good standing shall be timeously renewed in order that it remains in full force for the duration of the Contract.</p>
5.3.1	<p>The documentation required before commencement with the Works execution are:</p> <ol style="list-style-type: none"> 1 Health and Safety Plan (Refer to Clause 4.3) 2 Initial programme (Refer to Clause 5.6) 3 Security (Refer to Clause 6.2) 4 Insurance (Refer to Clause 8.6) 5 Letter of Good Standing from the Compensation Commissioner (if not insured with a Licensed Compensation Insurer)
5.3.2	<p>The time to submit the documentation required before commencement with the Works execution is 14 days.</p>
5.3.3	<p>The Contractor shall commence with execution of the Works within 7 days after receiving an instruction to commence with the Works.</p>
5.4.1	<p>The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site.</p>
5.5.1	<p>The Works shall be completed (Practical Completion) within 15 Weeks.</p>

5.8.1	<p>The non-working days are Sundays.</p> <p>The special non-working days are:</p> <p>(1) All gazetted public holidays falling outside the year end break.</p> <p>(2) The year end break commencing on 15 December and ending on 9 January</p>
5.8.3	<p>The following additional clause shall apply:</p> <p>Should the Employer's Agent permit work outside of normal Employer working hours (viz Mondays to Fridays inclusive sunrise to sunset) and on Saturdays, Sundays or on any of the non-working days stated in the Appendix and if he deems the presence of the Employer's Agent Representative or other duly authorised representative to be necessary, the Contractor will be liable for the cost of such supervision (calculated at a daily rate of 1/130 of the annual salary of such representative). Where the Employer's Agent has ordered such work, the salary of the representative will be to the account of the Employer.</p> <p>A minimum of 24 hours notification of intent to work outside normal working hours shall be regarded as sufficient notice as set out in 5.8.1"</p>
5.12.2.2	<p>No extension of time will be granted in respect of any delays attributed to normal climatic conditions. Normal climatic conditions shall be deemed to include normal rainfall and associated wet conditions and materials, strong winds and extremes of temperature.</p> <p>However, in the event that delays to critical activities exceed 2 consecutive working days for each month, then abnormal climatic conditions shall be deemed to exist, and an extension of time may be claimed in accordance with the provisions of Clause 5.12.</p> <p>Claims for delays for abnormal climatic conditions shall be accompanied by substantiating facts and evidence, which shall be submitted timeously by the Contractor as each day or half-day delay is experienced.</p> <p>It shall be further noted that where the critical path is not affected, no extension of time for abnormal climatic conditions or for any other reason will be entertained</p>
5.13.1	<p>The penalty for failing to complete the Works is 11c/R100 of contract amount per day. No claim for bonus payments in respect of early completion will be entertained.</p>
5.14.1	<p>Practical Completion: In terms of this contract, practical completion will be reached, once all the works have been completed in full, according to the bill of quantities and project specifications, and dually been approved by the Employers agent representative.</p>
5.16.3	<p>The latent defect period is 5 Years.</p>
6.2.1	<p>The security to be provided by the Contractor shall be 10 % Retention.</p>
6.6.1	<p>The provisional sums stated in the Schedule of Quantities are net amounts covering the actual expenditure which the Employer may incur.</p>

6.7.6	<p>The following additional clause shall apply:</p> <p>The Works are measured in accordance with the current SANS 1200 and the standard system of measurement of Civil Engineering quantities for South Africa, published by the South African Institution of Civil Engineers. No claims arising from the method of measurement will be entertained.</p>
6.8.1	<p>Should the rated tendered be unrealistically high or low, the Employer's Agent may instruct the contractor to balance the rates while the contract sum will remain firm, before commencement of construction. The revised balanced rates will be final and binding. And the value of the payment certificates is to be calculated in accordance with the revised rates and/or prices of the tender throughout the period of the Contract.</p>
6.10.1.5	<p>The percentage advance on materials not yet built into the Permanent Works is 80%.</p>
6.10.3	<p>The percentage retention on amounts due to the contractor is 10%, which will be reduced to 5% on date of completion.</p>
6.10.4	<p>Add the following to clause:</p> <p>Notwithstanding the above, the Employer's Agent shall be empowered to withhold the delivery of the payment certificate until the Contractor has complied with his obligations to report in terms of Clause 4.10.2 and as described in the Scope of Work.</p>
8.3.1.6	<p>Electrical supply interruptions due to 'load shedding" implemented by the electricity suppliers is excluded from the risks accepted by the Employer.</p>
8.5.2	<p>The following additional clause shall apply:</p> <p>If the Contractor receives any claim in respect of any loss or injury or damage to any person or property, then the Contractor shall immediately report the same to the Employer's Agent and, if at the end of ninety days from the date of receipt of such claim the Contractor cannot satisfy the Employer's Agent that the claim has been settled or that valid reasons for the non-settlement of the claim exist, then the Employer may, without limiting the obligations and responsibilities of the Contractor, negotiate a settlement and deduct all sums due in respect of such claim from payments due to the Contractor.</p>
8.6.1.1.2	<p>The value of plant and materials supplied by the Employer to be included in the insurance sum is Nil.</p>
8.6.1.1.3	<p>The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is R 200 000.00.</p>
8.6.1.3	<p>The limit of indemnity for liability insurance is R 2 000 000.00 per claim for projects under R 5 000 000.00 and R 5 000 000.00 for projects over R 5 000 000.00.</p>

9.2.1.3.8	<p>Add the following to clause:</p> <p>The Contractor committed a corrupt or fraudulent act during the procurement process or the execution of the contract.</p>
9.2.1.3.8	<p>Add the following to clause:</p> <p>An official or other role player committed any corrupt or fraudulent act during the procurement process or in the execution of the contract that benefited the Contractor.</p>
10.1	Replace all references to 28 days , with 14 days in this clause and all sub clauses.
10.2	Replace all references to 28 days , with 14 days in this clause and all sub clauses.
10.4.1	The parties may at any time agree to settle disputes with the help of an impartial third party.
10.5.3	The number of Adjudication Board Members to be appointed is THREE.

2. CLAUSES APPLICABLE TO EPWP CONTRACTS	
	<ol style="list-style-type: none"> 1. Employer's objectives: The employer's objectives are to deliver infrastructure using labour-intensive methods according to EPWP guidelines. 2. Labour-intensive works: Labour-intensive works shall be conducted using local workers who are temporary employed in terms of the scope of work. 3. Labour-intensive competencies of supervisory and management staff: The contractor shall engage supervisory and management staff in labour intensive works that have completed the skills programme including Foreman/Supervisors at NQF level 4 "National Certificate on supervision of Civil Engineering Construction Processes" and Site Agent/manager at NQF level 5 on "Manage labour-intensive Construction Processes" or equivalent QCTO qualification.
4.1	<p>Variations to the Conditions of Contract are:</p> <p><i>Add the following at the end of sub clause 4.1.2.</i></p>
4.1.3	<p>The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Amendment Act, 1993 (Act 85 of 1993), hereinafter referred to as 'the Act', that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act:</p> <ol style="list-style-type: none"> (i) The Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all relevant provisions of the Act and the Regulations promulgated in terms of the Act. (ii) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations on the Contractor will be fully complied with. (iii) The Contractor accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations and expressly absolves the Employer from himself being obliged to comply with any of the aforesaid duties, obligations and prohibitions, with the exception of such duties, obligations and prohibitions expressly assigned to the Employer in terms of the Act and its associated Regulations. (iv) The Contractor agrees that any duly authorised officials of the Employer shall be entitled, although not obliged, to take such steps as may be necessary to monitor that the Contractor has conformed

	<p>to his undertakings as described in paragraphs (i) and (ii) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or any appropriate records or safety plans held by the Contractor.</p> <p>(v) The Contractor shall be obliged to report forthwith to the Employer and Engineer any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and Regulations, pursuant to work performed in terms of this Contract, and shall, on written demand, provide full details in writing, to the Employer and Engineer, of such investigation, complaint or criminal charge.</p>
6.7.6	<p><i>Add new subclause 6.7.6:</i></p> <p>"Payment for the labour-intensive component of the works</p> <p>Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the scope of work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations in contract.</p> <p>The Contractor's payment invoice shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted.</p>
3. ADDITIONAL CONDITIONS OF CONTRACT:	
Clause	
4.13	<p>Add new sub clause 4.13:</p> <p>Applicable labour laws</p> <p>The Ministerial Determination 4, Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No R347 of 7 May 2012 (Gazette no 35310), as reproduced below, shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled or semi-skilled workers.</p>
4.13 (cont.)	<p>1 Introduction</p> <p>1.1 This document contains the standard terms and conditions for workers employed in elementary occupations on a Expanded Public Works Programme (EPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a EPWP.</p>
4.13 (cont.)	<p>1.2 In this document –</p> <ul style="list-style-type: none"> (a) "department" means any department of the State, implementing agent or contractor; (b) "employer" means any department, implementing agency or contractor that hires workers to work in elementary occupations on a EPWP; (c) "worker" means any person working in an elementary occupation on a EPWP; (d) "elementary occupation" means any occupation involving unskilled or semi-skilled work; (e) "management" means any person employed by a department or implementing agency to administer or execute an EPWP; (f) "task" means a fixed quantity of work; (g) "task-based work" means work in which a worker is paid a fixed rate for performing a task; (h) "task-rated worker" means a worker paid on the basis of the number of tasks completed;

	<p>(i) “time-rated worker” means a worker paid on the basis of the length of time worked.</p> <p>2 Terms of work</p> <p>2.1 Workers on a EPWP are employed on a temporary basis.</p> <p>3 Normal hours of work</p> <p>3.1 An contractor may not set tasks or hours of work that require a worker to work—</p> <ul style="list-style-type: none"> (a) more than forty hours in any week; (b) on more than five days in any week; and (c) for more than eight hours on any day. <p>3.2 An contractor and worker may agree that a worker will work four days per week. The worker may then work up to ten hours per day.</p> <p>3.3 A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.</p> <p>4 Meal breaks</p> <p>4.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.</p> <p>4.2 An contractor and worker may agree on longer meal breaks.</p> <p>4.3 A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.</p> <p>4.4 A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work during the meal break.</p>
4.13 (cont)	<p>5 Special conditions for security guards</p> <p>5.1 A security guard may work up to 55 hours per week and up to eleven hours per day.</p> <p>5.2 A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.</p> <p>6 Daily rest period</p> <p>Every worker is entitled to a daily rest period of at least eight consecutive hours.</p> <p>The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.</p>
4.13 (cont)	<p>7 Weekly rest period</p> <p>Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work (“emergency work”).</p> <p>8 Sick leave</p> <p>8.1 Only workers who work more 24 hours per month have the right to claim sick-pay in terms of this clause.</p> <p>8.2 A worker who is unable to work on account of illness or injury is entitled to claim one day’s paid sick leave for every full month that the worker has worked in terms of a contract.</p> <p>8.3 A worker may accumulate a maximum of twelve days sick leave in a year.</p> <p>8.4 Accumulated sick leave may not be transferred from one contract to another contract.</p> <p>8.5 A contractor must pay a task-rated worker the worker’s daily task rate for a day’s sick leave.</p> <p>8.6 A contractor must pay a time-rated worker the worker’s daily rate of pay for a day’s sick leave.</p>

	<p>8.7 A contractor must pay a worker sick pay on the worker's usual pay day.</p> <p>8.8 Before paying sick pay, a contractor may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –</p> <ul style="list-style-type: none"> (a) absent from work for more than two consecutive days; or (b) absent from work on more than two occasions in any eight-week period. <p>8.9 A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.</p> <p>8.10 A worker is not entitled to paid sick leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.</p>
<p>4.13 (cont)</p>	<p>9 Maternity leave</p> <p>9.1 A worker may take up to four consecutive months unpaid maternity leave.</p> <p>9.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.</p> <p>9.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.</p> <p>9.4 A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.</p> <p>9.5 A worker may begin maternity leave –</p> <ul style="list-style-type: none"> (a) four weeks before the expected date of birth; or (b) on an earlier date – <ul style="list-style-type: none"> (i) if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or (ii) if agreed to between employer and worker; or (c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health. <p>9.6 A worker who has a miscarriage during the third trimester of pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.</p> <p>10 Family responsibility leave</p> <p>10.1 Workers who work for at least four days per week, are entitled to three days paid family responsibility leave each year in the following circumstances:</p> <ul style="list-style-type: none"> (a) when the employee's child is born; (b) when the employee's child is sick; (c) in the event of a death of <ul style="list-style-type: none"> (i) the employee's spouse or life partner; (ii) the employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling. <p>11 Statement of conditions</p> <p>11.1 A contractor must give a worker a statement containing the following details at the start of employment:</p> <ul style="list-style-type: none"> (a) the contractor's name and address and the name of the EPWP; (b) the tasks or job that the worker is to perform; and (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract; (d) the worker's rate of pay and how this is to be calculated; (e) the training that the worker will receive during the EPWP.

	<p>11.2 A contractor must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.</p> <p>11.3 A contractor must supply each worker with a copy of these conditions of employment.</p>
4.13 (cont)	<p>12 Keeping records</p> <p>12.1 Every employer must keep a written record of at least the following:</p> <ul style="list-style-type: none"> (a) the worker's name and position; (b) copy of an acceptable worker identification; (c) in the case of a task-rated worker, the number of tasks completed by the worker; (d) in the case of a time-rated worker, the time worked by the worker; (e) payments made to each worker. <p>12.2 The employer must keep this record for a period of at least three years after the completion of the EPWP.</p> <p>13 Payment</p> <p>13.1 A contractor must pay all wages at least monthly in cash or by cheque or into a bank account.</p> <p>13.2 A worker may not be paid less than the minimum EPWP wage per day as set out in the National Minimum Wage Act no.9 of 2018 and subsequent updates.</p> <p>13.3 A task-rated worker will only be paid for tasks that have been completed.</p> <p>13.4 A contractor must pay a task-rated worker within five weeks of the work being completed and the work having been approved by the manager or the contractor having submitted an invoice to the employer.</p> <p>13.5 A time-rated worker will be paid at the end of each month.</p> <p>13.6 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.</p> <p>13.7 Payment in cash or by cheque must take place –</p> <ul style="list-style-type: none"> (a) at the workplace or at a place agreed to by the worker; (b) during the worker's working hours or within fifteen minutes of the start or finish of work; (c) in a sealed envelope which becomes the property of the worker. <p>13.8 A contractor must give a worker the following information in writing:</p> <ul style="list-style-type: none"> (a) the period for which payment is made; (b) the numbers of tasks completed or hours worked; (c) the worker's earnings; (d) any money deducted from the payment; (e) the actual amount paid to the worker. <p>13.9 If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it.</p> <p>13.10 If a worker's employment is terminated, the employer must pay all monies owing to that worker within one month of the termination of employment.</p> <p>15 Deductions</p> <p>15.1 A contractor may not deduct money from a worker's payment unless the deduction is required in terms of a law.</p> <p>15.2 A contractor must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.</p> <p>15.3 A contractor who deducts money from a worker's pay for payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order or arbitration award concerned.</p> <p>15.4 A contractor may not require or allow a worker to –</p> <ul style="list-style-type: none"> (a) repay any payment except an overpayment previously made by the contractor by mistake;

	<p>(b) state that the worker received a greater amount of money than the employer actually paid to the worker; or</p> <p>(c) pay the contractor or any other person for having been employed.</p>
4.13 (cont)	<p>15 Health and safety</p> <p>15.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.</p> <p>15.2 A worker must –</p> <ul style="list-style-type: none"> (a) work in a way that does not endanger his/her health and safety or that of any other person; (b) obey any health and safety instruction; (c) obey all health and safety rules of the EPWP; (d) use any personal protective equipment or clothing issued by the contractor; (e) report any accident, near-miss incident or dangerous behaviour by another person to their contractor or manager. <p>16 Compensation for injuries and diseases</p> <p>16.1 It is the responsibility of the contractor to arrange for all persons employed on a ESPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.</p> <p>16.2 A worker must report any work-related injury or occupational disease to their contractor or manager.</p> <p>16.3 The contractor must report the accident or disease to the Compensation Commissioner.</p> <p>16.4 An contractor must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The contractor will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.</p> <p>17 Termination</p> <p>17.1 The contractor may terminate the employment of a worker for good cause after following a fair procedure.</p> <p>17.2 A worker will not receive severance pay on termination.</p> <p>17.3 A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.</p> <p>18.4 A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available.</p> <p>17.5 A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available.</p> <p>18 Certificate of service</p> <p>18.1 On termination of employment, a worker is entitled to a certificate stating –</p> <ul style="list-style-type: none"> (a) the worker's full name; (b) the name and address of the employer; (c) the EPWP on which the worker worked; (d) the work performed by the worker; (e) any training received by the worker as part of the EPWP; (f) the period for which the worker worked on the EPWP; (g) any other information agreed on by the contractor and worker.

PART 2: DATA PROVIDED BY THE CONTRACTOR

Clause	Data		
1.1.1.9	The name of the Contractor is		
1.2.1.2	<p>The address of the Contractor is:</p> <p>Physical Address:</p> <p>Postal Address:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>e-mail:</p> <p>Tel. No.</p> <p>Fax No.</p>		
1.1.1.14	The time for achieving Practical Completion is 15 Weeks .		
6.5.1.2.3	The percentage allowance to cover overhead charges is %		
6.2.1	The security to be provided by the Contractor shall be the following:		
<table border="1"> <tr> <td> Type of security (Value Added Tax is excluded from the Contract Sum and the value of the Works for calculating the percentages) </td> <td>10% Retention</td> </tr> </table>		Type of security (Value Added Tax is excluded from the Contract Sum and the value of the Works for calculating the percentages)	10% Retention
Type of security (Value Added Tax is excluded from the Contract Sum and the value of the Works for calculating the percentages)	10% Retention		

AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993

THIS AGREEMENT is made between

(hereinafter called the EMPLOYER) of the one part, herein represented by:

in his capacity as:

AND:

(hereinafter called the CONTRACTOR) of the other part, herein represented by

in his capacity as:

duly authorised to sign on behalf of the Contractor.

WHEREAS the CONTRACTOR is the Mandatory of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of

CONTRACT No.: PES-24/25-0016C: BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT for the construction, completion and maintenance of the works;

NOW THEREFORE the parties agree as follows:

1. **The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.**
2. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.
3. The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the Employer's CONSULTING EMPLOYER'S AGENTS from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.
4. The CONTRACTOR agrees that any duly authorised officials of the EMPLOYER shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in paragraphs 1 and 2 above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps it may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.
5. The CONTRACTOR shall be obliged to report forthwith to the EMPLOYER any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the ACT and Regulations, pursuant to work performed in terms of this agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed atfor and on behalf of the **CONTRACTOR**

on this dayday of20_____

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESS: 1.

2.

Thus signed atfor and on behalf of the **EMPLOYER**

on this dayday of20_____

SIGNATURE:

NAME AND SURNAME:

CAPACITY:

WITNESS: 1.

2.

CESSION OF RIGHTS FOR MATERIALS ON SITE

Claim for materials on site

Payment Certificate No. Date:

Contract:

Employer:

Contract No:.....

Contractor:

I / We, the undersigned,.....
(Print name)

in my / our capacity asof
(Print capacity) (Company)

hereby confirm that the Contractor is the bona fide owner of the goods and materials described in the attached schedule and the Contractor hereby cedes assigns and transfers all the right, title and interest claim and demand in and due to the materials and goods described in the attached schedule in favour of the Employer.

All rights of the Employer in and to this Cession shall become effective immediately upon the Contractor obtaining payment for the goods referred to on the attached schedule (less payment of retention monies that may be validly retained in respect thereof) from which time forward the ownership of all the stated goods and materials will vest in and pass irrevocably to the Employer.

Notwithstanding the foregoing all risk or loss and/or damage to the said goods and materials whilst in the Contractor's stores up until the time that all the goods and materials have been installed in the Works shall be the responsibility of the Contractor.

This Cession shall neither constitute a novation of nor amend the terms of the Contract existing between the Employer and the Contractor nor shall it in any manner vitiate any of the rights and obligations imposed on either party.

Signed by: **Date:**
for and on behalf of the Contractor.

Witnessed by: **Date:**

(NOTE: This form, together with the documentary proof of ownership or proof of payment by the Contractor to the supplier, shall accompany the Contractor's claim for payment for materials on site in terms of Clause 49.1.5 of the General Conditions of Contract Third Edition 2015).

PART C2 – PRICING DATA

C 2.1

Pricing Instructions

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN
MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO
DISTRICT**

C2.1 Pricing Instructions

1. Measurement and payment shall be in accordance with the relevant provisions of clause 8 of each of the SABS 1200 Standardised Specifications for Civil Engineering Construction referred to in the Scope of Work. The Preliminary and General items shall be measured in accordance with the provisions of SABS 1200-A, *General*.
2. The units of measurement described in the Bills of Quantities are metric units. Abbreviations used in these Bills of Quantities are as follows:

%	=	percent
h	=	hour
ha	=	hectare
kg	=	kilogram
kl	=	kilolitre
km	=	kilometre
km-pass	=	kilometre-pass
kPa	=	kilopascal
kW	=	kilowatt
l	=	litre
m	=	metre
mm	=	millimetre
m ²	=	square metre
m ² -pass	=	square metre-pass
m ³	=	cubic metre
m ³ -km	=	cubic metre-kilometre
month	=	month
MN	=	meganewton
MN.m	=	meganewton-metre
MPa	=	megapascal
No.	=	number
Prov sum	=	Provisional sum
PC sum	=	Prime Cost sum
R/only	=	Rate only
sum	=	lump sum
t	=	ton (1000 kg)
W/day	=	Work day

3. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
4. The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
5. It will be assumed that prices included in these Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards)

6. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items
7. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
8. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
9. The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
10. Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the SABS 1200 Standardized Specifications.

C 2.2

Bill of Quantities

SECTION A: PRELIMINARY AND GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
		SECTION A: PRELIMINARY AND GENERAL					
A.1	8.3	FIXED-CHARGE ITEMS					
A.1.1	8.3.1	Contractual Requirements	Sum	=====	=====		
A.1.2	8.3.2	Provision of facilities on site:					
A.1.2.1		b) Facilities for Contractor	Sum	=====	=====		
A.1.2.2	8.3.3	General responsibilities and other fixed-charge obligations	Sum	=====	=====		
A.1.2.3	8.3.4	Removal of site Establishment	Sum	=====	=====		
A.1.3	8.4	TIME-RELATED ITEMS					
A.1.3.1	8.4.1	Contractual Requirements	Sum	=====	=====		
A.1.3.2	8.4.2	Operate and maintain facilities on the Site:					
A.1.3.2.1		b) Facilities for Contractor	Sum	=====	=====		
A.1.3.3	8.4.3	General Responsibilities and other time-related obligations	Sum	=====	=====		
A.1.4		SUMS STATED PROVISIONALLY BY ENGINEER					
A.1.4.1	8.5	Electrical connection, repair to damaged existing services, which are not foreseen at stage of tendering.	Prov. Sum	1.00	80 000	80 000	00
A.1.4.2		Overheads, charges and profit on Item A.1.4.1	%	80,000.00			
A.1.5	PAM	OCCUPATIONAL HELATH AND SAFETY ACT					
A.1.5.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====		
A.1.5.2	PAM 8.2.1	Time related obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====		
Total Carried Forward To Summary							

SECTION B : TUNNEL FITTED WITH SMART BOXES AND IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
B		SECTION B : TUNNEL FITTED WITH SMART BOXES AND IRRIGATION SYSTEM					
B.1		EARTHWORKS					
B.1.1	PC 2.2	Remove topsoil to nominal depth of 150 mm and stockpile	m ²	476.00			
B.1.2	PC 2.5	Excavate in earth for surface trenches (openings for concrete blocks and drainage channel)	m ³	90.00			
B.1.3	PC 2.4	Filling and compaction of imported G5 material to 95% Mod AASHTO	m ³	144.00			
B.1.4	PC 2.9	Extra over for prescribed density tests on filling	No.	5.00			
B.2		TUNNEL STRUCTURE					
B.2.1	PPS 1.1	UV resistant HDPE transparent 8.5mm x 2.5/2mm hail net	m ²	400.00			
B.2.2	PPS 1.4	Galvanized Steel Tunnel Structure as per drawing No. 02, 08, 10	Sum	=====	=====		
B.2.3	PPS 1.5	Smart Climate boxes	No.	225.00			
B.3		CONCRETE WORKS					
B.3.1	PC 3.3	Reinforced concrete 25MPa/19 blocks 500mm x 500mm x 500mm	m ³	3.00			
B.3.2	PC 3.5	Rough formwork	m ²	22.00			
B.3.3	PC 3.4	Concrete test cubes size 150 x 150 x 150mm	No.	10.00			
B.3.4	PC 3.8	Wooden float top of concrete to be at a slope	m ²	5.50			
B.3.5	PC 23.3	10mm rebar for concrete boxes as per drawing No. 02 & 08	kg	80.00			
B.4		WATER TANK, SPECIAL VALVE, FITTINGS AND BASE					
B.4.1	PC 21.7	5 000 litre polyethylene plastic tanks as per drawing No. 09	No.	3.00			
B.4.2	PC 21.7	150 litre polyethylene chemical tank for the fertilizer	No.	1.00			
B.4.3	PC.21.8	Extra over for tank stand as per drawing No.09	Sum	=====	=====		
B.4.4	PPS 1.7	Tank Manifold					
B.4.4.1		40mm Nylon Threaded Nipple	No.	4.00			
B.4.4.2		40mm PVC Ball-valve	No.	4.00			
B.4.4.3		40mm x 50mm Nylon Reducing Threaded Nipple	No.	4.00			
Total Carried Forward							

SECTION B : TUNNEL FITTED WITH SMART BOXES AND IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.4.4.4		50mm x 1 1/2" PVC Solvent Weld/Female Threaded Union	No.	4.00			
B.4.4.5		50mm FIP Elbow 90 degree	No.	2.00			
B.4.4.6		50mm FIP Equal Tee	No.	3.00			
B.5.1		DRIPPER IRRIGATION, PUMP AND FITTINGS					
B.5.1.1	PC 21.3	LDPE Pipe 32mm class 3	m	300.00			
B.5.1.2	PPS 1.6	Dripper Netafim Woodpecker Pressure Compensated 8.5l/h (21020-001200)	No.	255.00			
B.5.1.3	PPS 1.7	4-Way Flat Spider manifold + nipple outlet (3x5mm) (32000-002580)	No.	255.00			
B.5.1.4	PPS 1.7	4-Way Flat manifold (3x5mm tube) (32000-002560)	No.	255.00			
B.5.1.5	PPS 1.7	3 x5mm Tubing per metre - black	No.	600.00			
B.5.1.6	PPS 1.7	1.6 l/h Elbow Arrow dripper - Grey	No.	1,600.00			
B.5.1.7	PPS 1.7	3mm Netafim Hole Punch	No.	1.00			
B.5.1.8	PPS 1.7	100m hose pipe and wall mounted brass tap, hosepipe fittings)	No.	1.00			
B.5.2	PPS1.8	CONTROL VALVES AND FEEDER LINE FITTINGS					
B.5.2.1		25mm Hydraulic control valve with 24v AC solenoid, BSP Threaded	No.	4.00			
B.5.2.2		50/63 X 1" FIP male adaptor	No.	4.00			
B.5.2.3		50mm FIP elbow 90 degree	No.	2.00			
B.5.2.4		50mm FIP Tee	No.	4.00			
B.5.2.5		25mm Nylon Male adaptor	No.	4.00			
B.5.2.6		25mm Nylon Insert elbow	No.	16.00			
B.5.2.7		25mm Nylon Insert Tee	No.	4.00			
B.5.2.8		25mm Pipe clamp	No.	50.00			
B.5.3	PPS 1.7	PUMP OUTLET/FILTER FITTINGS					
B.5.3.1		50/63 x 1 1/2" PCM Male Adapter	No.	3.00			
B.5.3.2		50mm FIP Elbow	No.	3.00			
B.5.3.3		40mm FIP Threaded Union	No.	2.00			
B.5.3.4		40mm Disk Filter (Manual Flush) (100 Micron)	No.	1.00			
Total Carried Forward							

SECTION B : TUNNEL FITTED WITH SMART BOXES AND IRRIGATION SYSTEM

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.5.4	PPS 1.7	PUMP INLET/TANK OUTLET					
B.5.4.1		50/63 x 2"/AM3 FIP Male Adaptor	No.	1.00			
B.5.4.2		50mm FIP Elbow 90 degree	No.	4.00			
B.5.4.3		50mm Class 6 uPVC pipe x 6m length	No.	12.00			
B.5.5	PPS 1.7	Assorted					
B.5.5.1		440ml PVC Weld	No.	3.00			
B.5.5.2		500ml PVC Cleaner	No.	1.00			
B.5.5.3		19mm Threaded Tape	No.	8.00			
B.5.6	PC 3.16	Damp proof membrane: 80 microns UV Resistance	m²	300.00			
B.5.7	PC 6.2	COMPLETE PUMP CAGE 1.5m x 0.8m x 0.8m (Including roof covering with 2mm thick galvanised sheet fixed to iron angles, 3mm expanded metal, 70mm long ,12mm Dia, Grade 4.8 bolt and nuts , locking mechanism, 50mm x 50mm, 2mm equal angle iron frame)	Sum	=====	=====		
B.5.8	PC 21.4	0.75kW Speck Porpoise 16 swimming pool pump	No.	1.00			
B.5.9	PC 21.5	125 metres x 2 Core plus earth-wire, 4mm square armoured Cable to be supplied and installed between the Eskom meter and circuit breaker. All fittings, breakers and Trenching Included. The electrical installation must be done by an accredited installer.	m	125.00			
B.5.10	PPS 1.9	Automation 8-Station Outdoor Digital irrigation Controller (220v input) (24v AC output) plus all wiring to solenoid valves	No.	1.00			
B.5.11		Galvanised Steel lockable Control box with Stand for Irrigation Controller	No.	1.00			
B.6		WATER CONNECTION FROM THE EXISTING BOREHOLE					
B.6.1	PC 2.14	Excavate in all material for trenches for various depths not exceeding 1.0m depth and 600mm wide including backfill, compact and dispose of surplus unsuitable material.					
B.6.2	PC 21.3	Supply, deliver and installHDPE pipe class 10	m	100.00			
B.6.3	PC 21.12	Compression HDPE Tee with Threaded female offtake 50 x 2"	No.	3.00			
B.6.4	PC 21.12	Compression HDPE elbow Threaded female offtake 50 x 2"	No.	2.00			
B.6.5	PC 21.12	Compression HDPE elbow 50 x 1 1/2"	No.	4.00			
B.6.6	PC 21.12	Compression HDPE coupling 63mm x 63mm	No.	4.00			
Total Carried Forward							

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
1	SECTION A: PRELIMINARY AND GENERAL	.....
2	SECTION B : TUNNEL FITTED WITH SMART BOXES AND IRRIGATION SYSTEM	.....
	SUBTOTAL	.....
1	Add 5% Contingencies	.....
	SUBTOTAL	.....
2	Add 15% VAT	.....
	Total Carried Forward To Form of Offer	.....

C 3.1

Scope of Work

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL
FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL
SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISCTRICT**

C3.1 Scope of Work

1. Scope of Work and Management

TOPIC	SUB TOPIC
DESCRIPTION OF THE WORKS	
Employer's objective	BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISCTRICT
Overview and extent of works	<p>This contract entails the Construction of a hail net tunnel fitted with smart climatic boxes and irrigation system.</p> <p>Scope of work</p> <ul style="list-style-type: none"> • Removing the top soil • Compacting the area to be fitted with the structure • Reinforced concrete block 500mm x 500mm x 500mm • Drainage channel • Pump house • Supply and deliver of hail nets • Supply and deliver of steel tubing structure • Irrigation system together with 5000 L water tanks <p>Electrification for pump operation</p>
Labour intensive work:	<p>It is the Employer's objective that the contract be executed as s labour intensive contract, and that all labour intensive tasks shall be executed in terms of the EPWP regulations.</p> <p>Labour intensive tasks shall be, but is not restricted to:</p> <ul style="list-style-type: none"> • Clearing and Grubbing, • Shaping, • Loading, • Hauling, • Offloading • Spreading • Compaction • Masonry items • Installation of manufactured items
Location of the works	MANDELA AGRICULTURAL SCHOOL in KSD Local Municipality. - 31°56'16"S 28°33'15"E
ENGINEERING	
Design + Drawings + Specifications	Done + Will be issued + Compiled by the division Engineering Services of DRDAR
PROCUREMENT	
Preferential procurement procedures	Method 1 – Price Preference
Sub-contracting	Sub-contracting will be allowed. The Contractor must however indicate at tender stage which portions of the work will be sub-contracted and to whom.
CONSTRUCTION	
Works specifications	<p>1. The standards specifications will apply, as stated in: "Specifications of Construction Materials and methods to be used for Agricultural on-farm Infrastructure", Second Edition, April 2022, Revision "DRDAR SCMM-02/2022".</p> <p>2. Applicable SANS 1200 standards for the building works.</p> <p>3. Attached Project Particular Specifications will apply.</p>

Plant and materials	<p>1. The Employer will not provide any plant or material.</p> <p>2. The Contractor shall inform the Engineer in good time, to inspect and approve the plant and materials that will be used before construction commences or on arrival of material on site.</p>
Construction equipment	<p>1. The Employer will not provide any equipment.</p> <p>2. The Contractor shall provide all suitable construction equipment necessary to complete the project.</p>
Existing services	Care should be taken by the contractor not to damage any existing services. The Engineer shall show the position of all existing infrastructure both above ground and below ground to the Contractor and the contractor are to ensure that no excavations shall commence without consent of the Engineer.
Site establishment	<p>1. The Employer will not provide any facilities on site.</p> <p>2. The Contractor shall provide an office, storage shed, toilets, security, vehicles, labour and accommodation.</p>
Site usage	The Contractor shall not utilize the site for any other purpose than the construction of the agreed works.
Permits and way leaves	The Contractor will negotiate all necessary permits and way leaves with the local community.
Survey control and Setting out works	The Contractor will be responsible for the survey and setting out of all construction levels. After setting out the levels the Contractor will inform the Engineer to inspect the levels before any excavation work or construction work may commence.
MANAGEMENT	
Management of works	<p>1. Applicable SANS 1200, SANS 10400 standards will apply.</p> <p>2. Attached generic standards will apply.</p> <p>3. The standards specifications will apply, as stated in: "Specifications of Construction Materials and methods to be used for Agricultural on-farm Infrastructure", Second Edition, April 2022, Revision "DRDAR SCMM-02/2022", will apply.</p> <p>4. Drawings and specifications will be provided by the Employer and shall be the only acceptable drawings for the agreed works.</p> <p>5. The Engineer will be available to perform inspections every day on request, but will perform at least one scheduled inspection per week.</p> <p>6. The Contract type is measured where payments to the Contractor will be made after measurement of the work done by the Engineer according to the following payment schedule.</p> <p>6.1. The Contractor shall submit invoices according to the agreed claims and the Engineer will recommend the payment.</p> <p>6.2. The Engineer will inspect the work at the Contractor's request to measure the progress and determine the part payment that is due when both parties are in agreement about the claim.</p> <p>6.3. All payments can include materials that are secured on site under control of the Contractor. Materials on site which are not yet built into the works will compensated at 80% of the value as per the invoice from the material suppliers.</p> <p>6.4. The Employer allows for monthly interim payments for the project that can be used, 1 practical and 1 final payment.</p> <p>6.5. The practical completion of the construction work implies the work is complete and the beneficiaries can use the infrastructure.</p> <p>6.6. The final and last payment is the retention money that will be paid after a predetermined period after all construction work is done. This is the defects liability period.</p> <p>6.7. Certificates of Completion and Final Approval will be issued by the Engineer for practical and final construction completion.</p> <p>7. The Contractor shall provide the Engineer with proof that Insurance has been obtained for the contract period.</p> <p>8. The Contractor shall keep a daily record of all labour related matters, weather occurrences, all incidents that influenced construction.</p> <p>9. Communications between the Employer and Contractor will be in writing with copies to all stakeholders.</p> <p>10. The Contractor shall be responsible for testing the works after completion to ensure compliance with the Employer's requirements.</p>

	<p>11. The Employer will commission the works during a public handing over ceremony.</p> <p>12. The Contractor shall repair all defects of workmanship and materials during the liability period.</p>
Health and safety	<p>1. Attached Generic Occupational Health and Safety Specifications will apply.</p> <p>2. Applicable SANS 1200, SANS 10400 and 10142 standards will apply;</p> <p>3. Occupational Health and Safety Act (Act No. 85 of 1993) will apply;</p> <p>4. The Contractor shall appoint a person that will be responsible for health and safety issues on site and provide the Engineer with the name and credentials of this person. This person must also be trained in First Aid and must have a comprehensive First Aid Kit on site.</p> <p>5. The Contractor shall be responsible to design and apply measures to prevent accidents or injury to any person or property during construction.</p>

C 3.2

Specifications

PPS 1.1 HAIL NET

A UV resistant high-density polyethylene transparent or white Raschel Drape Hail Net with a mesh size of 8.5mm x 2.5mm/2 shall be supplied. The hail net shall have the SABS mark clearly stated and comply with SANS ISO 9001:2015. The contractor shall send the Engineer's Representative samples of all stated material before delivery and/or manufacturer's guarantee that all material complies with all SABS and SANS standards.

The hail net shall have at least a 10% shade factor to allow sunlight to pass for the orchard and reinforced edges to enhance the elastic strength of the net.

PPS 1.2 GALVANISED STEEL FENCING STAPLES 2.5 x 25 mm

Galvanized u-nails shall be supplied. The wire shall have the SABS mark clearly stated and comply with SANS ISO 9001:2015. The size/diameter of the u-nails shall be 2.5 x 25mm.

PPS 1.3 SMART CLIMATIC BOXES

The smart climatic box shall be WickBox (689mm (L) x 689mm (W) x 519mm (D)) or similar, and manufactured from Polypropylene. The smart climatic box shall come with the following:

- I. A UV resistance
- II. 1 x Reservoir
- III. 4 x Wicking Cups
- IV. 8 x Side Walls
- V. 4 x Grid Arms
- VI. 1 x Sight Level
- VII. 4 x Grid Clips
- VIII. 4 x Corner Connectors
- IX. 4 x Straight connectors
- X. 15 x Connector Rods
- XI. 1 x Filler Pipe
- XII. Mass 9.8kg

PPS 1.4 TUNNEL FRAME

All structural steelwork shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for Structural Steel in General Building Construction. All surfaces of structural steelwork are to be thoroughly cleaned of all rust, scale, oil or grease, all in accordance with SABS Code of Practice 064 and then protected against corrosion. The tunnel frame shall come with the following features:

- a) Tunnel dimensions shall be 30m in length and 10m in width.
- b) The overall tunnel height shall be a minimum of 4.00m with a minimum inside clearance of 2.6m.
- c) All structural steel tubing shall be fully galvanised (275g/square metre) and of dimensions as specified in Drawing No. 03.
- d) The arch spacing shall not exceed 3.0m.
- e) Assembly shall be by means of galvanised clamps on purlins or fully galvanised nuts and bolts.

- f) Arches shall be embedded in concrete foundations of minimum dimensions 500mm by 500mm deep with 10mm steel reinforcing at spacing indicated on Drawing No. 03.
- g) The concrete strength shall be 20 MPa/19mm

PPS 1.4.1 Preparatory Work

Steel to be cleaned down in accordance with SABS Code of Practice 064. All metal surface defects such as laminations and welding spatter shall be removed by grinding. Sharp edges, rags, burrs, etc. shall be rounded off before cleaning. After fabrication, but before erection, all steel surfaces to be scraped and wired brushed to Grade ST 2 of Swedish Specification SIS 05 59 00-1967. Steelwork so prepared is not to be touched by bare hands – linen gloves are to be worn. Before priming, the surface shall be vacuum cleaned or dry brushed to remove all dust and debris. The steel frame for the tunnel shall be made of 32mm x 2mm galvanised steel tube.

The welding shall be in accordance with SABS Specification 1129. Welding is to be done electrically in the most up to date manner by skilled workmen and cleaned off on completion. All welding is to be carried out using welding rods of the same chemical composition as the tubes, rods, bars, etc. to be welded. All exposed welds are to be finished off clean and smooth. Welding to all exposed edges is to be continuous fillet welding unless otherwise described.

PPS 1.4.2 Structural Fasteners

The mechanical properties of bolts, screws and nuts shall be in accordance with the following standards or as stated on the drawings:

I. Class 4.8, 8.8 and 10.9 bolts and screws: SANS 1700-5-1

II. Class 4 to 11 nuts: SANS 1700-2-2

Bolts, screws and nuts shall comply with the following standards:

I. Screws: SANS 1700-7-4 or SANS 1700-7-5

II. Bolts: SANS 1700-7-1 or SANS 1700-7-3

III. Nuts: SANS 1700-14-2 or SANS 1700-14-3

IV. Hot-dip galvanized bolts: SANS 1700-14-9 or SANS 1700-14-11

Holding-down bolts shall be fabricated from round bar that complies with the requirements of SANS 1431 grade 300WA.

Plain washers shall be in accordance with the provisions of SANS 1700-16-2. Through hardened washers shall be in accordance with the provisions of SANS 1700-16-3.

PPS 1.5 FOUR BRANCH LONG BEND ARROW DRIPPER

Arrow dripper pipes shall be in accordance with SANS 4427/ISO 4427 and bear the SABS Mark. The pipe diameters and Class shall be as indicated on the drawings. Compression joints made with compression fittings shall be used for joining pipes. Take care to use the size of fitting intended specifically for the pipe to be joined. The end of the pipe is inserted into the fitting past the rubber sealing ring and, by turning of a threaded nut, a grip ring is compressed between the fitting and the pipe until it grips the outer surface of the pipe to prevent the pipe from pulling out of the fitting. The arrow dripper shall come with the following features:

- a) Material, plastic
- b) Colour, black, green, blue, etc.
- c) Flow rate, 2l/h
- d) Plant population, 4 plants per smart climatic box (0.47 m²)
- e) Peak water requirement, 3 litres per plant per day in case of Tomato, cabbage, spinach and etc

- f) Dripper flow rate, 2l/h/plant
- g) Number of hours to fill the storage reservoir, 21.5 hours
- h) Number of irrigations per day, minimum of 8 (working hours as from 8am to 16pm)
- i) Number of days to fill up the storage reservoir, 3 days
- j) Dripper line spacing, 670mm
- k) Dripper spacing on lateral, 1160mm
- l) Pressure requirement at dripper, 100kpa
- m) Total water requirement per tunnel, 2624l/day

PPS 1.6 FLOOR PLASTIC

The floor shall be covered by 80 micron UV resistant floor plastic for easy of clean and drainage.

PPS 1.7 LOWER DENSITY POLYETHYLENE PIPE

Polyethylene pipes shall be in accordance with SANS 4427/ISO 4427 and bear the SABS Mark. The pipe diameters and Class shall be as indicated on the drawings. Compression joints made with compression fittings shall be used for joining pipes. Take care to use the size of fitting intended specifically for the pipe to be joined. The end of the pipe is inserted into the fitting past the rubber sealing ring and, by turning of a threaded nut, a grip ring is compressed between the fitting and the pipe until it grips the outer surface of the pipe to prevent the pipe from pulling out of the fitting.

PPS 1.8 PUMP CAGE

All structural steelwork shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for Structural Steel in General Building Construction. All surfaces of structural steelwork are to be thoroughly cleaned of all rust, scale, oil or grease, all in accordance with SABS Code of Practice 064 and then protected against corrosion as follows:

PPS 1.8.1 Preparatory work

The pump cage shall be manufactured from 50x50x2mm Thickness Equal Angle Iron as show on the drawings. Al the joint shall be connected using filled weld 3mm. The frame shall be assembled on the ground and move in place when it's done. The frame structure shall be clad with Steel Expanded Metal Flatex 346/VEM 6320H (50x25mm x 3mm) or similar approved, from the market the expanded metal usual comes with 1.2 x 2.4m size. The expanded metal shall be cut on site and fitted using fillet weld or it can be manufactured wherever the contractor want, the completed structure shall comply with the dimensions and specification in this document. The steel frame must be coated with two layers of Alcolin Anti Rust Black.

The pump cage shall be bolted on the concrete slab using Anchor Bolt 70mm long, 12mm dia, Grade 4.8 bolt and nuts with 12mm fixing hole drilled. Once the bolts are in place the contractor shall apply the chemical anchors.

Steel to be cleaned down in accordance with SABS Code of Practice 064. All metal surface defects such as laminations and welding spatter shall be removed by grinding. Sharp edges, rags, burrs, shall be rounded off before cleaning. After fabrication, but before erection, all steel surfaces to be scraped and wired brushed to Grade ST 2 of Swedish Specification SIS 05 59 00-1967. Steelwork so prepared is not to be touched by bare hands – linen gloves are to be worn. Before priming, the surface shall be vacuum cleaned or dry brushed to remove all dust and debris.

PPS 1.8.2 Anchor Bolts and Chemical Fixing

Chemical fixings, also known as chemical anchors, are types of steel stud, bolts and anchors that are bonded to masonry and concrete with a resin based adhesive for high load applications. The contractor need to check the compatibility first to ensure the resin and substrate material will bond. Once the compatibility is checked the resin is injected into the hole the bolt is to be fixed into. The bolt is then screwed into the hole and left to set. Once the resin has cured the bolt provides a very strong anchor point to attach a load. The chemical anchor shall be Rawlplug Polyester Styrene Free Resin 175ml Chem Anchor.

PPS 1.8.3 Steel Door Frame

The steel door frame shall be manufactured from a 50x50x2mm Thickness Equal Angle Iron clad with Steel Expanded Metal (Flatex 346/VEM 6320H (25x50mm (1.2x2.4m) including hinges and locking mechanism as show on the drawing and coated with two layers of Alcolin Anti Rust Black. Pressed steel door frames shall be of welded "one piece" construction, all in accordance with SABS Specification 1129 Welding is to be done

electrically in the most up to date manner by skilled workmen and cleaned off on completion. All welding is to be carried out using welding rods with the fillet weld of 3mm of the same chemical composition as the angles, rods, bars, etc. to be welded. All exposed welds are to be finished off clean and smooth. Welding to all exposed edges is to be continuous fillet welding.

PPS 1.8.4 Roofing

The roofing for the structure shall be manufactured from the standard Steel Sheet plate 2mm thick, Fully Galvanised. 3mm fillet weld shall be applied to join the roof sheeting with the angle iron. No coating shall be applied on the roof.

PPS 1.9 PUMP

The pump set and starter shall be mounted on a steel frame as shown on drawing No.07 with canopy providing complete coverage and protection.

PPS 1.9.1 Pump Suction

The suction pipe shall be of the flexible type and a minimum of 5m in length. The diameter of the suction pipe shall be such that the flow velocity does not exceed 1.5 m/s. A galvanised foot valve and strainer of diameter 1.5 times that of the suction pipe shall be supplied and fitted. The flow velocity through the foot valve and strainer shall not exceed 0.4 m/s. Suitable galvanised adaptor fittings, to connect the suction pipe to the pump inlet shall be supplied and fitted.

PPS 1.9.2 Pump Discharge

Suitable galvanised fittings to adapt the pump outlet diameter to the supply pipeline diameter shall be supplied and fitted. A brass gate valve and non-return valve of diameters equivalent to that of the supply pipeline shall be supplied and fitted. A quick couple fitting, to enable the removal of the pump set and of diameter equivalent to the supply line, shall be supplied and fitted.

PPS 1.10 ELECTRIC CABLE AND SWITCHGEAR

4 Core armoured cable of adequate capacity for the full load amperages of the electric motor shall be supplied and installed between the Eskom meter and circuit breaker. Voltage drop shall not exceed 5% between phase and neutral. A circuit breaker of amperage not less than the full load motor amperage shall be supplied and installed in a weather proof cubicle mounted on a 1.50m above ground level.

PPS S 1.11 PIPELINES AND FITTINGS

Pipelines shall be laid and bedded centrally in the trench to even grades and to the depth required, with the manufacturer's markings visible from above.

Each pipe and each special/fitting shall be thoroughly cleaned and carefully examined for damage and defects immediately before laying. Should any damaged or defective pipe or fitting be laid, it shall be removed and replaced by the Contractor at his expense.

Every reasonable precaution shall be taken to prevent the entry of foreign matter or water into the pipes. During laying and jointing of pipes the trenches shall be kept reasonably dry.

Pipelines shall be jointed in accordance with the manufacturer's instructions and with their recommended jointing solvents.

All specials and fittings shall be correctly set, supported, and placed in position as the work proceeds, and shall be properly jointed to their respective pipes.

Anchor/thrust blocks where directed shall be constructed to dimensions shown, of strength 15 MPa/37.5 mm. The concrete shall be well punned round the pipe and against the undisturbed faces and bottom of the trench. Backfilling behind or under thrust faces is not permitted.

PPS 1.12 Pressure Reducing Pilot Valve

- .1 The 3 way pressure reducing servo (or equivalent) pilot valve shall reduce the upstream pressure to a constant downstream pressure at each block
- 2 The valve body and cover shall be plastic. The end connections shall be female threaded.
- 4 The rated operating pressure shall be PN10

PPS 1.13 Rainbird automation or similar

The ESP-LXME Controller shall be of a hybrid type that combines eletro- mechanical and micro electrical circuitry cuple of fully automatic or manual operation. The controller shall be housed in a wall-mounteable , weather-resistant plastic cabinet with a key-locking cabinet door suitable for either indoor or outdoor installation. The controller shall be be programmed in English language.
The controller shall have a base station capacity of 4 or 12 stations as well aas 3 expansion slots capable of receiving station station modules of 4,8 or 12 stations to create a controller capacity of up to 12 stations.

PPS 1.14 PIPES

All distribution pipelines and laterals shall be of Unplasticised PVC with so loot and socket joints containing an integral rubber ring seal, in accordance to SABS 966 part 1.

1.1 All PVC distribution pipes shall be in accordance with SANS 1200 L - 1983 (medium-pressure pipelines) section 3.7 para 3.7.1

1.2 Both uPVC and MPVC pipes shall further comply with the relevant requirements of SANS 966

1.3 Low density polyethylene pipes and HDPE shall be manufactured to SANS 533 standards and shall be provided with a 12 year written warrantee.

1.4 Steel piping at the filter in and outlet shall comply with the relevant requirements of SANS 1200L-1983 (medium pressure pipelines)

1.5 Piping at the filter in and outlet shall be 200mm black mild steel with a minimum wall thickness of 4.5mm

1.6 Steel piping and flanges at the filter in and outlet shall be hot dipped galvanized according to SANS 32 for heavy duty applications

PPS MEASUREMENT AND PAYMENT

Item	Unit
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PPS 1.1 Hail Net UV resistant HDPE transparent 8.5mm x 2.5/2mm hail net ...square metre (m²)

The unit of measurement shall be the square meter of hail net

The tendered rate shall be in full compensation for supply, delivery of all materials, labour and plant for the complete laying hail net as per the specifications.

Item	Unit
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PPS 1.2 Wires Galvanised high strain wire 2.2mm and 4mm diameter..... m

The unit of measurement shall be the meter of galvanised wire.

The tendered rates for all wire shall be deemed to include cutting and waste, bending, hooked ends, binding at lapping and intersections with annealed wire all as above described, hoisting or lowering and maintaining in position whilst the concrete is being deposited and.

Item	Unit
PPS 1.3 Galvanised Steel Fencing Staples 2.5 x 25 mm	Kg

The unit of measurement shall be the kilogram of galvanised steel fencing staples.

The tendered rate shall be in full compensation for supply, delivery of all materials, labour and plant for the complete placing of steel fencing staples in place.

Item	Unit
PPS 1.4 Steel portal frame structure.....	Sum

The unit of measurement shall be the Sum Total for the Steel Portal Frame Structure complete with all columns, baseplates, trusses, purlins, galvanized sheet covering, etc.

The tendered rate for the steel portal frame structure shall include full compensation for all materials, including the cutting, waste, manufacturing of elements, baseplates, anchor bolts, bolts and nuts, bracing, purlins, galvanized sheet covering, etc.

Item	Unit
PPS 1.5 Smart Climatic Boxes.....	Number (No)

The unit of measurement shall be the number of smart climatic boxes delivered to site.

The tendered rate for the smart climatic boxes shall include full compensation for the supply of all labour and materials, transport of all materials to site.

PPS 1.6 Four Branch Long Bend Arrow Dripper	Number (No)
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The unit of measurement shall be the number of four branch long bend arrow dripper delivered to site.

The tendered rate for the four branch long bend arrow dripper shall include full compensation for the supply of all labour and materials, transport of all materials to site including installation.

PPS 1.7 Fittings and specials.....	N
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The unit of measurement shall be in number, for the complete pipe works.

The tendered rate shall cover the cost of the provision of the pipes, complete with couplings, the costs of the handling, inspecting, transporting, bedding, laying, jointing, cutting, painting and testing as well as extra over items for the supplying, laying, bedding of specials complete with couplings

PPS 1.8 CONTROL VALVES.....	No
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The unit of measurement shall be in number, for the complete set of control valves at each block of irrigated lands.

The rates tendered for the Block control valve assemblies shall cover the cost of supplying, assembling, jointing, jointing material, and testing each block valve unit complete. Measurement will be by number (no), for each item required as specified

PPS 1.9 Automatic Rainbird Station	Sum
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The unit of measurement shall be in lump sum, for the complete Rainbird irrigation scheduling unit,

The rate tendered for the irrigation scheduling unit shall include all costs of supplying, installing and testing one (1) unit complete with continuous logging moisture probes in each block or zone as specified by the manufacturer

PPS 1.10 HDPE/PVC Pipes..... No

The unit of measurement shall be in number, for the complete PVC pipes or LDPE/HDPE Pipes.

The rates tender rate shall include full compensation for supplying and assembly of PVC/HDPE pipes, jointing, jointing material, and testing each pipework

PROJECT SPECIFICATIONS FOR BID FOR BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT

HEALTH AND SAFETY

PAM HEALTH AND SAFETY SPECIFICATIONS

Generic occupational health and safety specification for construction work contracts

PAM: SCOPE

This health and safety specification in respect of a construction work contract:

- a) provides the overarching framework within which the contractor is required to demonstrate compliance with certain requirements for occupation health and safety established by the Occupational Health and Safety Act of 1993 during construction;
- b) establishes the manner in which the contractor is to manage the risk of health and safety incidents in during the construction; and
- c) establishes the manner in which the employer's health and safety agent will interact with the contractor.

Note 1. This specification establishes generic requirements to enable the employer and the contractor to satisfy aspects of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Construction Regulations, 2014. The contractor is required to develop, implement and maintain package specific health and safety plans. The employer is required to provide certain package specific information to the contractor or a health and safety specification for the works to enable such plans to be formulated. Accordingly, this generic specification on its own cannot ensure compliance with the requirements of the aforementioned Act (See Annexure A).

Note 2. The Construction Regulations, 2014, require an employer to stop any contractor from executing construction work which is not in accordance with the contractor's health and safety plan for the site or which poses to be a threat to the health and safety of persons.

Note 3. This specification establishes generic health and safety requirements. Site specific requirements for health and safety are stated in the scope of work associated with a contract (see Annexure A).

Note 4. The South African Council for the Project and Construction Management Professions has established the following specified categories of registration in terms of the Project and Construction Management Professions Act of 2000 (Act No. 48 of 2000):

- a) a Construction Health and Safety Agent who may be appointed by an employer to act as his agent in terms of the Occupational Health and Safety Act of 1993 and the Construction Regulations issued in terms of that Act;
- b) a Construction Health and Safety Manager who may be appointed by an employer to complement his professional team or by a contractor to manage company or project health and safety performance and compliance in accordance with the Occupational Health and Safety Act and Regulations; and
- c) a Construction Health and Safety Officers who may be appointed by an employer to mitigate the risk on a project or by a contractor to monitor and assist on-site health and safety performance and compliance in accordance with the Occupational Health and Safety Act and Regulations and services.

PAM 1 DEFINITIONS

Act: The Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

contractor: person or organization that contracts to provide the work covered by the contract

contract manager: person appointed by the employer to administer the contract on his behalf

competent person: any person who:

- a) has in respect of the work or task to be performed the required knowledge, training and experience and, where applicable, qualifications specific to that work or task; and

b) is familiar with the Act and applicable regulations made in terms of the Act

Note: The Regulations stipulate that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act of 2000, those qualifications and training must be regarded as the required qualifications and training.

danger: anything which may cause injury or damage to persons or property

employer: person or organisation that enters into a contract with the contractor for the provision of the work covered by the contract

employer's health and safety agent: the person appointed as agent by the employer in terms of Regulation 4(5) of the Construction regulations and named in the contract data as the being the employer's agent responsible for health and safety matters

ergonomics: the application of scientific information concerning humans to the design of objects, systems and the environment for human use in order to optimise human well-being and overall system performance

hazard: a source of or exposure to danger

hazard identification: the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed

health and safety plan: a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified

health and safety specification: a site, activity or project specific document pertaining to all health and safety requirements related to construction work which is included in the contractor's contract with the employer or an order issued in terms of framework agreement

healthy: free from illness or injury attributable to occupational causes

incident: an event or occurrence occurring at work or arising out of or in connection with the activities of persons at work, or in connection with the use of plant or machinery, in which, or in consequence of which:

- a) any person dies, becomes unconscious, suffers the loss of a limb or part of a limb or is otherwise injured or becomes ill to such a degree that he is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or to continue with the activity for which he was employed or is usually employed;
- b) a major incident occurred; or
- c) the health or safety of any person was endangered and where:
 - i) a dangerous substance was spilled;
 - ii) the uncontrolled release of any substance under pressure took place;
 - iii) machinery or any part thereof fractured or failed resulting in flying, falling or uncontrolled moving objects; or machinery ran out of control

inspector: a person designated as such under section 28 the Act

major incident: an occurrence of catastrophic proportions, resulting from the use of plant or machinery, or from activities at a workplace

reasonably practicable: practicable having regard to:

- a) the severity and scope of the hazard or risk concerned;
- b) the state of knowledge reasonably available concerning that hazard or risk and of any means of removing or mitigating that hazard or risk;
- c) the availability and suitability of means to remove or mitigate that hazard or risk; and

d) the cost of removing or mitigating that hazard or risk in relation to the benefits deriving therefrom;

risk: the probability that injury or damage will occur

safe: free from any hazard

scaffold: any temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both

structure:

- a) any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- b) any false work, scaffold or other structure designed or used to provide support or means of access during construction work; or
- c) any fixed plant in respect of construction work which includes installation, commissioning, decommissioning or dismantling and where any construction work involves a risk of a person falling

substance: any solid, liquid, vapour, gas or aerosol, or combination thereof

suitable: capable of fulfilling or having fulfilled the intended function or fit for its intended purpose

temporary works: any falsework, formwork, support work, scaffold, shoring or other temporary structure designed to provide support or means of access during construction

workplace: any premises or place where a person performs work in the course of his employment

PAM 2 INTERPRETATION

PAM 2.1 The Act and its associated regulations shall have precedence in the interpretation of any ambiguity or inconsistency between it and this specification.

PAM 2.2 Compliance with the requirements of this specification does not necessarily result in compliance with the provisions of the Act.

PAM 3 REQUIREMENTS

PAM 3.1 General requirement

The contractor shall:

- a) create and maintain as reasonably practicable a safe and healthy work environment,
- b) execute the work in a manner that complies with all the requirements of the Act and all its associated regulations, and in so doing, minimize the risk of incidents occurring;
- c) conspicuously display any site specific number assigned to the construction site in terms of the Construction Regulations 2014 at the main entrance to the site; and
- d) respond to the notices issued by the employer's health and safety agent as follows:
 - 1) Improvement Notice: improve health and safety performance over time so that repeat notices are not issued;
 - 2) Contravention Notice: rectify contravention as soon as possible;
 - 3) Prohibition Notice: terminate affected activities with immediate effect and only recommence activities when it is safe to do so.

Note: Financial penalties can be applied should Contravention Notices be issued. This should be dealt with in the Contract Data.

PAM 3.2 Administration

PAM 3.2.1 Notification of intention to commence construction work

PAM 3.2.1.1 The contractor shall on sites where no construction work permit has been issued by the Provincial Director of the Department of Labour notify such director in writing using a form similar to that contained in Annexure 2 of the Construction Regulations issued in terms of the Act before construction work commences and retain proof of such notification in the health and safety file where the work includes:

- a) excavation work;
- b) working at height where there is a risk of falling;
- c) the demolition of a structure;
- d) the use of explosives; or
- e) a single storey dwelling for a client who is going to reside in such dwelling upon completion

PAM 3.2.1.2 The contractor shall ensure that no work commences on an electrical installation which requires a new supply or an increase in electricity supply before the person who supplies or contracts or agrees to supply electricity to that electrical installation has been notified of such work.

PAM 3.2.1.3 The contractor shall ensure that no asbestos work is carried out before the Provincial Director of the Department of Labour has been notified in writing.

PAM 3.2.2 Copy of the Act

The contractor shall ensure that a copy of the Act and relevant regulations is available on site for inspection by any person engaged in any activity on the site.

PAM 3.2.3 Good standing with the compensation fund or a licensed compensation insurer

The contractor shall before commence with any work on the site provide the employer's health and safety representative with proof of good standing with the compensation fund or with a licensed compensation insurer.

PAM 3.2.4 Emergency procedures

PAM 3.2.4.1 The contractor shall submit for acceptance to the employer's health and safety agent an emergency procedure which include but are not limited to fire, spills, accidents to employees, exposure to hazardous substances, which:

- a) identifies the key personnel who are to be notified of any emergency;
- b) sets out details including contact particulars of available emergency services; and
- c) the actions or steps which are to be taken during an emergency.

PAM 3.2.4.2 The contractor shall within 24 hours of an emergency taking place notify the employer's health and safety agent in writing of the emergency and briefly outline what happened and how it was dealt with.

PAM 3.2.5 Health and safety file

PAM 3.2.5.1 The contractor shall establish and maintain on site a health and safety file which contains copies, as relevant of:

- a) the following documents which shall be placed in the file prior to commencing with physical construction activities

- 1) copy of the contraction work permit issued in terms of the Construction Regulations 2014;
 - 2) the contractor's health and safety policy, signed by the chief executive officer, which outlines the contractor's objectives and how they will be achieved and implemented by the contractor;
 - 3) copies of all risk assessments that were conducted
 - 4) the notification made to the Provincial Director of Labour, and if relevant, the notification of the person who supplies or contracts or agrees to supply electricity to that electrical installation;
 - 5) the letters of appointment, as relevant, together with a brief curriculum vita (CV) of:
 - the construction manager and any assistant construction managers;
 - the construction health and safety manager
 - the construction health and safety officer
 - the risk assessor who is tasked to perform the risk assessments; and
 - the registered person responsible for the electrical installation covered by the Electrical Installations Regulations;
 - the authorised persons responsible for gas appliances, gas system gas reticulation system covered by the Pressure Equipment Regulations;
 - 6) a copy of the certificate of registration of the registered person responsible for the electrical installation covered by the Electrical Installations Regulation;
 - 7) the approval of the design of the part of an electrical installation which has a voltage in excess of 1 kV by a person deemed competent in terms of the Electrical Installations Regulations;
 - 8) the approval of the design of the part of an electrical installation which has a voltage in excess of 1 kV by a person deemed competent in terms of the Electrical Installations Regulations;
 - 9) proof of registration of the electrical contractor who undertakes the electrical installation in terms of the Electrical Installations Regulations;
 - 10) the preliminary hazard identification undertaken by a competent person;
 - 11) the organogram which outlines the roles of the construction supervisor's assistants and safety officers; and
 - 12) the contractor's health and safety plan;
 - 13) the emergency procedures;
 - 14) the procedure for the issuing and replacement of lost, stolen, worn or damaged personal protective clothing and equipment; and
 - 15) proof that the contractor and all the subcontractors are registered and in good standing with the compensation fund or with a licensed compensation insurer relevant to the type of work performed;
- b) the following documents, as relevant, which shall be placed in the file after construction activities have commenced
- 1) the letters of appointments, if relevant, together with a brief curriculum vita (CV) of:
 - persons who are required to assist the construction supervisor;
 - construction supervisor for the site in respect of construction work covered by the Construction Regulations;
 - competent persons;
 - assistants of construction supervisor; and
 - designers of temporary works;
 - 2) any revisions to the organogram which outlines the roles of the construction supervisor's assistants and safety officers;

- 3) each and every subcontract agreement and each and every subcontractor's approved health and safety plan;
- 4) proof that every subcontractor is registered and in good standing with the compensation fund or with a licensed compensation insurer relevant to the type of work performed;
- 5) proof of all subcontractor's induction training whenever it is conducted;
- 6) copies of the minutes of the contractor's subcontractors' health and safety meetings;
- 7) copies of each of the contractor's subcontractors' health and safety policy, signed by the chief executive officer, which outlines the contractor's objectives and how they will be achieved and implemented by the contractor;
- 8) the health and safety plans of all the contractor's subcontractors who are required to provide such plans;
- 9) copies of the fall protection plan and each revision thereof;
- 10) a comprehensive and updated list of all the subcontractors employed on site by the contractor, indicating the type of work being performed by such sub-contractors;
- 11) the outcomes of the monthly audits for compliance with the approved health and safety plan of each and every sub-contractor working on the site;
- 12) any report made to an inspector by the health and safety committee;
- 13) the minutes of all health and safety meetings and any recommendations made to the contractor by the health and safety committee;
- 14) the findings of all audit reports made regarding the implementation of the contractor's or a subcontractor's health and safety plan;
- 15) the inputs of the safety officer, if any, into the health and safety plan;
- 16) details of induction training conducted whenever it is conducted including the list of attendees;
- 17) proof of the following where suspended platforms are used:
 - a certificate of system design issued by a professional engineer, professional certificated engineer or a professional engineering technologist;
 - proof of competency of erectors, operators and inspectors;
 - proof of compliance of operational design calculations with requirements of the system design certificate;
 - proof of performance test results;
 - sketches indicating the completed system with the operational loading capacity of the platform;
 - procedures for and records of inspections having been carried out;
 - procedures for and records of maintenance work having been carried out;
 - proof that the prescribed documentation has been forwarded to the provincial director;
- 18) letters of appointments for competent persons to supervise the activities which law requires to be so supervised;
- 19) a copy of risk assessments made by competent persons;
- 20) records of the register of inspections made by a competent person immediately before and during the placement of concrete or any other load on formwork;
- 21) the names of the first aiders on site and copies of the first aid certificates of competency;

- 22) the names of the persons the persons who are in possession of valid certificate of competency in first aid and copies of such certificates;
- 23) medical certificates of fitness for the contractor's and subcontractors' employees specific to the construction work to be performed and issued by an occupational health and safety practitioner;
- 24) details of all incidents together with the Contractor's investigative report on such incident;
- 25) the record of inspections carried out by the designers of structures to ensure compliance with designs; and
- 26) any other documentation required in terms of regulations issued in terms of the Act including a record of all drawings, designs, materials used and other similar information concerning the completed structure;

PAM 3.2.5.2 The health and safety file shall be made available for inspection by any inspector, subcontractor, the contract manager, the employer's health and safety agent or employee of the contractor upon the request of such persons.

PAM 3.2.5.3 The health and safety file shall be updated to ensure that its contents always reflect the latest available information.

PAM 3.2.5.4 The contractor shall hand over a copy of the health and safety file to the employer's health and safety agent upon completion of the contract and if relevant, a certificate of compliance accompanied by a test report for the electrical installation in accordance with the provisions of the Electrical Installation Regulations.

PAM 3.2.6 Health and safety committee

PAM 3.2.6.1 The contractor shall convene health and safety meetings whenever more than two health and safety representatives have been appointed for the site. These meetings shall be attended by all health and safety representatives and persons nominated by the contractor. Such meetings shall be convened whenever necessary but at least once every month to:

- a) make recommendations to the contractor regarding any matter affecting the health or safety of persons on the site; and
- b) discuss any incident on the site in which or in consequence of which any person was injured, became ill or died.

PAM 3.2.6.2 The contractor shall consult with the health and safety committee on the development, monitoring and review of the risk assessment.

PAM 3.2.6.3 The contractor shall ensure that minutes of the health and safety committee meetings are kept. The employer's health and safety agent shall be invited to attend such meetings as an observer.

PAM 3.2.7 Inspections, formal enquires and incidents

PAM 3.2.7.1 The contractor shall inform the relevant safety representative:

- a) beforehand of inspections, investigations or formal inquiries of which he has been notified by an inspector; and
- b) as soon as reasonably practicable of the occurrence of an incident on the site.

PAM 3.2.7.2 The contractor shall record all incidents and notify the employer's health and safety agent of any incident, except in the case of a traffic accident on a public road, as soon as possible after it has occurred and report such incidence to an inspector of the department of labour and notify the Provincial Director of the Department of Labour of such incident within 7 days on the prescribed form.

PAM 3.2.7.3 The contractor shall investigate all incidents and issue the employer's health and safety agent with copies of such investigations.

PAM 3.2.7.4 The contractor shall in the event of an incident in which a person dies, or is injured to such an extent that he is likely to die, or suffered the loss of a limb or part of a limb:

- a) notify the Provincial Director of the Department of Labour of such incident by telephone, facsimile or similar means of communication;
- b) ensure that no person disturbs the site at which the incident occurred or remove any article or substance involved in the incident therefrom, without the consent of an inspector, unless an action is necessary to prevent a further incident, to remove the injured or dead, or to rescue persons from danger; and.
- c) provide the Provincial Director of the Department of Labour with a report which includes the measures that the contractor or his subcontractor intend to implement to ensure a safe site as reasonably practicable.

PAM 3.2.7.5 The contractor shall notify the Provincial Director of the Department of Labour of the death of any person which results from injuries sustained in an incident.

PAM 3.2.8 Personal protective equipment and clothing

The contractor shall ensure that:

- a) all workers are issued with the necessary personal protective clothing;
- b) all workers are identifiable at all times by having the company for which they work for printed on the back or front of their overalls; and
- c) clear procedures are in place for the replacement of lost, stolen, worn or damage personal protective clothing.

PAM 3.3 Appointments

PAM 3.3.1 Construction manager

The contractor shall appoint in writing one full time competent person as the construction manager with the duty of managing all the construction on a single site including that of ensuring occupational health and safety compliance. Where appropriate, the contractor shall appoint in writing one or more assistant construction managers.

PAM 3.3.2 Appointment of construction health and safety officers

The contractor shall after consultation with the employer after considering the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the site, prior to commencing the work and if necessary, appoint a full-time or a part-time suitably qualified health and safety officer to assist in the control of all health and safety related aspects on the site.

PAM 3.3.3 Construction supervisors

PAM 3.3.3.1 The construction manager shall in writing appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

PAM 3.3.3.2 A contractor shall after considering the size of the project and if considered necessary, appoint in writing one or more competent employees for different sections of the work to assist the construction supervisor.

PAM 3.3.4 Competent persons

PAM 3.3.4.1 The contractor shall appoint in writing competent persons to supervise or inspect, as relevant, any of the following:

- a) formwork and support work operations;
- b) excavation work;

- c) demolition work;
- d) scaffolding work operations;
- e) suspended platform work operations;
- f) material hoists;
- g) bulk mixing plants;
- h) temporary electrical installations;
- i) the stacking and storage of articles on the site; and
- j) fire equipment.

PAM 3.3.4.2 The contractor shall appoint in writing competent persons to:

- a) induct employees in health and safety; and
- b) prepare and update as necessary a fall protection plan and to provide the construction manager with a copy of the latest version of such plan.

PAM 3.3.5 Health and safety representatives

PAM 3.3.5.1 The contractor shall appoint in writing one health and safety representative for every 50 employees working on the site, whenever there are more than 20 employees on the site, to:

- a) review the effectiveness of health and safety measures;
- b) identify potential hazards and potential major incidents;
- c) in collaboration with his employer, examine the causes of incidents;
- d) investigate complaints by any employee of the contractor relating to that employee's health or safety on the site;
- e) make representations to the contractor on matters arising from a), b), c) or d) or on general matters affecting the health or safety of the employees at the workplace;
- f) inspect the site with a view to, the health and safety of employees, at regular intervals;
- g) participate in consultations with inspectors at the workplace and accompany inspectors on inspections of the workplace; and
- h) participate in any internal health or safety audit.

PAM 3.3.5.2 The contractor shall provide the health and safety representatives with the necessary assistance, facilities and training to carry out the functions established in 4.3.1

PAM 3.4 Employer's health and safety agent

PAM 3.4.1 The employer's health and safety agent shall:

- a) audit the contractor's compliance with the requirements of this specification prior to the commencement of any physical construction activities on the site;
- b) accept or reject the contractor's health and safety plans, giving reasons for rejecting such plans;
- c) monitor the effective implementation of all safety plans;
- d) conduct periodic and random audits on the health and safety file to establish compliance with the requirements of this specification;

- e) visit the site at regular intervals to conduct site inspections, and based upon such visits issue, wherever necessary, Improvement Notices, Contravention Notices and Prohibition Notices, to the contractor or any of the contractor's subcontractors with a copy to the contract manager and, where relevant, to the contractor.

PAM 3.4.2 The contractor shall invite the employer's health and safety agent to audit compliance with the requirements of this specification before commencing with any physical construction activity on the site.

PAM 3.5 Creating and maintaining a safe and healthy work environment

PAM 3.5.1 General

PAM 3.5.1.1 The contractor shall with respect to the site and the construction work that are contemplated:

- a) cause a preliminary hazard identification to be performed by a competent person before commencing any physical construction activity;
- b) evaluate the risks associated with the identified hazard to the health and safety of such employees and the steps that need to be taken to comply with the Act; and
- c) as far as is reasonably practicable, prevent the exposure of such employees to the hazards concerned or, where prevention is not reasonably practicable, minimize such exposure.

PAM 3.5.1.2 The contractor shall ensure that:

- a) all reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work;
- b) no structure or part of a structure is loaded in a manner which would render it unsafe; and
- c) account of information, if any, provided by the designer of the structure is taken into account in the risk assessment;

Note: The information provided by the designer should outline known or anticipated dangers or hazards relating to the work and make available all information required for the safe execution of the work. It should provide as relevant, geotechnical information (or make reference to reports provided in the site information), the loading the structure is designed to withstand, the methods and sequence of construction.

PAM 3.5.1.3 The contractor shall carry out regular inspections and audits to ensure that the work is being performed in accordance with the requirements of this specification.

PAM 3.5.2 Risk assessment

PAM 3.5.2.1 The contractor shall before the commencement of any work on site and during construction work, cause a risk assessment to be performed by a competent person appointed in writing. Such an assessment shall as a minimum:

- a) identify hazards to which persons may be exposed to;
- b) analyse and evaluate the identified risks associated with the identified hazards;
- c) document a plan of safe work procedures, including the use of any personal protective equipment or clothing and the undertaking of periodic "toolbox talks" or inductions before undertaking hazardous work, to mitigate, reduce or control the risks and hazards that have been identified;
- d) provide a monitoring plan; and
- e) provide a review plan.

Note: A risk assessment is an important step in protecting workers as well as complying with the law. It helps to focus on the risks that really matter in a particular workplace – the ones with the potential to cause

real harm. Workers and others have a right to be protected from harm caused by a failure to take reasonable control measures. The following four steps are suggested:

- 1) Identify the hazards by looking at what could reasonably be expected to cause harm, ask employees or their representatives what they think, obtain advice from trade associations or publications on health and safety, check manufacturer's instructions or data sheets for chemicals and equipment as they can be very helpful in spelling out the hazards and putting them in their true perspective, review accident and ill-health records, think about long-term hazards to health (eg high levels of noise or exposure to harmful substances) as well as safety hazards etc.
- 2) Identify who may be harmed and how by identifying how individuals and groups of people might be harmed i.e. what type of injury or ill health might occur.
- 3) Evaluate the risks and decide on precautions by doing everything 'reasonably practicable' to protect people from harm i.e. by looking at how things are done, what controls are in place and how the work is organised and comparing this against good practice to see if more can be done to bring practices up to standard. Consider if the hazard can be removed all together, and if not how can the risks be controlled so that harm is unlikely, e.g. try a less risky option (eg switch to using a less hazardous chemical); prevent access to the hazard (eg by guarding); organize work to reduce exposure to the hazard (eg put barriers between pedestrians and traffic); issue personal protective equipment (eg clothing, footwear, goggles etc); and provide welfare facilities (eg first aid and washing facilities for removal of contamination).
- 4) Record the findings by writing down the findings of the risk assessment.

PAM 3.5.2.2 The contractor shall ensure that as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated and addressed in the risk assessment.

PAM 3.5.2.3 Notwithstanding the provisions of the fall protection plan, the contractor shall ensure that:

- a) all unprotected openings in floors, edges, slabs, hatchways and stairways are adequately guarded, fenced or barricaded or that similar means are used to safeguard any person from falling through such openings;
- b) no person works in an elevated position, unless such work is performed safely as if working from a scaffold or ladder;
- c) notices are conspicuously placed at all openings where the possibility exists that a person might fall through such openings;
- d) fall prevention and fall arrest equipment is:
 - suitable and of sufficient strength for the purpose or purposes for which it is being used having regard to the work being carried out and the load, including any person, it is intended to bear; and
 - securely attached to a structure or plant and the structure or plant and the means of attachment thereto is suitable and of sufficient strength and stability for the purpose of safely supporting the equipment and any person who is liable to fall;
- e) fall arrest equipment is only used where it is not reasonably practicable to use fall prevention equipment; and
- f) suitable and sufficient steps are taken to ensure, as far as is reasonably practicable, that in the event of a fall by any person, the fall arrest equipment or the surrounding environment does not cause injury to the person.

PAM 3.5.2.4 Where roof work is being performed on a construction site, the contractor shall ensure that it is indicated in the fall protection plan that:

- a) the roof work has been properly planned;
- b) the roof erectors are competent to carry out the work;

- c) no employees are permitted to work on roofs during inclement weather conditions or if weather conditions are a hazard to the health and safety of the employees;
- d) prominent warning notices are to be placed where all covers to openings are not of sufficient strength to withstand any imposed loads and where fragile material exists;
- e) the areas mentioned in paragraph (d) are to be suitably barricaded off to prevent persons from entering;
- f) suitable and sufficient platforms, coverings or other similar means of support have been provided to be used in such a way that the weight of any person passing across or working on or from fragile material is supported; and
- g) there is suitable and sufficient guard-rails or barriers and toe-boards or other similar means of protection to prevent, so far as is reasonably practicable, the fall of any person, material or equipment.

PAM 3.5.3 Health and safety plans

PAM 3.5.3.1 The contractor shall prior to commencing the work to which this specification applies, submit to the employer's health and safety agent for approval a suitable and sufficiently documented health and safety plan, based on this specification, the health and safety specification and the risk assessment that is conducted.

PAM 3.5.3.2 The health and safety plan shall as a minimum provide:

- a) the information contained in Table 1 in respect of each of the hazards associated with work falling within the scope of the contract); and
- b) an outline of the manner in which the contractor intends complying with the requirements of this specification.

Table 1: Example of the format of a health and safety plan

What are the hazards relating to work tasks?	Who might be harmed and how?	What are the safe work procedures for the site?	What further action is necessary (monitoring and review)?	Action by whom	Action by when

PAM 3.5.3.3 The contractor shall discuss the submitted health and safety plan with the employer's health and safety agent, modify such plan in the light of the discussions and resubmit the modified plan for approval.

PAM 3.5.3.4 The contractor shall apply the approved health and safety plan from the date of its commencement and for the duration of the work to which this specification applies.

PAM 3.5.3.5 The contractor shall conduct periodic audits for compliance with the approved health and safety plan at intervals agreed upon with the employer's health and safety agent, but at least once every month.

PAM 3.5.3.6 The contractor shall review and update the health and safety plan whenever changes to the works are brought about or following the occurrence on an incident.

PAM 3.5.4 Responsibilities towards employees and visitors

PAM 3.5.4.1 The contractor shall as far as be reasonably practicable, cause every employee to be made conversant with the hazards to his health and safety attached to any work which he has to perform, any article or substance which he has to produce, process, use, handle, store or transport and any plant or machinery which he is required or permitted to use, as well as with the precautionary measures which should be taken and observed with respect to those hazards or safe work procedures.

PAM 3.5.4.2 The contractor shall ensure that all employees under his or her control and the employees of his subcontractors who are performing construction work are:

- a) informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk

assessment; and

- b) issued with proof of health and safety induction training issued by a competent person and carry proof of such induction when working on site.

PAM 3.5.4.3 The contractor shall cause a record of training to be kept which indicates the training dates, the names, identity numbers and job description of all those who attended such training and the name, identity number and competence of the person who provided the training.

PAM 3.5.4.4 The contractor shall not allow or permit any employee to enter the site, unless such person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

PAM 3.5.4.5 The contractor shall ensure that each visitor to a construction site, save where such visitor only visits the site office and is not in direct contact with the construction work activities:

- a) undergoes health and safety instruction pertaining to the hazards prevalent on the site; and
- b) is provided with the necessary personal protective equipment.

PAM 3.5.4.6 The contractor shall provide suitable on-site signage to alert workers and visitors to health and safety requirements. Such signage shall include but not be limited to:

- a) unauthorized entrance prohibited;
- b) signage to indicate what personal protective equipment is to be worn; and
- c) activity related signs.

PAM 3.5.4.7 The contractor shall not permit any person who is or who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a workplace.

PAM 3.5.5 Subcontractors

PAM 3.5.5.1 The contractor may only subcontract work in terms of a written subcontract and shall only appoint a subcontractor should he be reasonably satisfied that such a subcontractor has the necessary competencies and resources to safely perform the work falling within the scope of the contract. Such a subcontract shall require that the subcontractor:

- a) co-operate with the contractor as far as is necessary to enable both the contractor and sub-contractor to comply with the provisions of the Act; and
- b) as far as is reasonably practicable, promptly provide the contractor with any information which might affect the health and safety of any person at work carrying out work or any person who might be affected by the work of such a person at work or which might justify a review of the health and safety plan.

PAM 3.5.5.2 The contractor shall provide any sub-contractor who is submitting a tender or appointed to perform a sub-contract falling within the scope of the contract, with the relevant sections of this specification and the health and safety specification.

PAM 3.5.5.3 The contractor shall discuss and negotiate with each subcontractor performing construction work the subcontractor's health and safety plan and approve that plan for implementation.

PAM 3.5.5.4 The contractor shall take reasonable steps as are necessary to ensure that:

- a) potential contractors submitting tenders have made sufficient provision for health and safety measures during the construction process;
- b) each subcontractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to their performance of work on site;
- c) all the subcontractor's employees have a valid medical certificate of fitness specific to the construction work which are to be performed which is issued by an occupational health and safety practitioner;

- d) all sub-contractors co-operate with each other to enable each of those sub-contractors to comply with the requirements of the Act and associated regulations;
- e) each subcontractor performing construction work has and maintains a health and safety file containing the relevant information described in 4.2.5; and
- f) each sub-contractor's health and safety plan is implemented and maintained.

PAM 3.5.5.5 The contractor shall conduct periodic document verifications and audits for compliance with the approved health and safety plan of each and every sub-contractor working on the site at intervals agreed upon with such subcontractors, but at least once per month.

PAM 3.5.5.6 The contractor shall stop any subcontractor from executing construction work which is not in accordance with the contractor's or subcontractor's health and safety plan for the site or which poses a threat to the health and safety of persons.

PAM 3.5.5.7 The contractor shall ensure that where changes to the works occur including design changes, sufficient health and safety information and appropriate resources are made available to subcontractor to execute the work safely.

PAM 3.5.5.8 The contractor shall ensure that:

- a) every subcontractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to work commencing on site;
- b) potential subcontractors submitting tenders have made provision for the cost of health and safety measures during the construction process; and
- c) every subcontractor has in place a documented health and safety plan prior to commencing any work on site which falls within the scope of the contract.

PAM 3.5.5.9 The contractor shall receive, discuss and approve health and safety plans submitted by subcontractors.

PAM 3.5.5.10 The contractor shall ensure that all subcontractors are informed regarding any hazard as stipulated in the risk assessment before any work commences, and thereafter at such times as may be determined in the risk assessment.

PAM 3.5.5.11 The contractor shall reasonably satisfy himself that all employees of subcontractors are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment.

PAM 3.5.5.12 The contractor shall satisfy himself and ensure that all subcontractor employees deployed in the site are:

- a) informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment; and
- b) issued with proof of health and safety induction training issued by a competent person and carry proof such induction when working on site.

PAM 3.5.5.13 The contractor shall undertake a risk assessment together with subcontractors whenever subcontractors are working in close proximity to other subcontractors particularly activities involve excavations, the moving of earth, the movement of heavy machinery and working at heights.

PAM 3.5.6 First aid, emergency equipment and procedures

PAM 3.5.6.1 The contractor shall where more than five employees are employed at a workplace, provide a first aid box or boxes at or near the workplace which shall be available and accessible for the treatment of

injured persons at that workplace. Such first aid boxes shall contain suitable first aid equipment which includes the items listed in the General Safety Regulations issued in terms of the Act.

PAM 3.5.6.2 The contractor shall ensure that where there are more than 10 employees employed on the site that for every group of up to 50 employees at that workplace, at least one person is readily available during normal working hours, who is in possession of a valid certificate of competency in first aid.

PAM 3.5.7 Facilities for workers

PAM 3.5.7.1 The contractor shall provide and keep clean and fit for use at or within reasonable access of the site:

- a) at least one shower facility for every 15 workers;
- b) at least one sanitary facility for every 30 workers;
- c) changing facilities for each gender; and
- d) sheltered eating areas.

PAM 3.5.7.2 A contractor shall provide reasonable and suitable living accommodation for the workers at construction sites which are remote from their homes and where adequate transportation between the site and their homes, or other suitable living accommodation, is not available.

PAM 3.6 Design of temporary work

The contractor shall:

- a) provide the health and safety agent with the names and contract particulars of the designers involved in the design of temporary works;
- b) issue the designers with a copy of the health and safety specification as well as any pertinent information contained in the contract and;
- c) provide the health and safety agent with certificates issued by the designer of the temporary works that such works are fit for purpose before such works are used in support construction activities.

PAM 4 MEASUREMENT AND PAYMENT

PAM 4.1 Principles

Tenderers (including those sub-contractors and/or suppliers who are preparing prices/quotations for submission to the main Tenderer) must ensure that they make adequate financial provision in their tenders for full compliance with the OHS Act, the Regulations thereto and this H&S specification. Financial provision shall therefore be made by each Tenderer for, inter alia, the following:

- Carrying out and documenting risk assessments of all work to be carried out under the contract.
- Preparation of safe work procedures.
- Preparation of an H&S plan, discussing it with the Employer, and then amending it as agreed.
- Preparation of a Project H&S File to include all requirements of Annexure A.
- Regular updating of all of the foregoing.
- Provision of medical certificates of employees.
- Provision of PPE and protective clothing for employees
- Complying with all H&S requirements for the duration of the contract.
- Provision of forced ventilation (as required when working in confined spaces).
- The completion and checking of the safety file upon completion of the works and handing it over to the Employer.

To enable the Employer to appraise the allowances that Tenderers have made for H&S in their tenders, so that he/she can fulfil his/her obligations in terms of Clause 7 of the Construction Regulations, separate items have been included in the Bill of Quantities for Health and Safety.

Failure by a Tenderer to submit realistic prices for the scheduled H&S items may prejudice his tender.

ANNEXURE A (to H&S specification)

PAM 5 TASK COMPLETION FORM

The Principal Contractor and Sub-Contractors must submit proof of compliance with Annexure A with the construction phase H&S plan where applicable.

PAM Item No.	Requirement	OHSA Requirement	Submission Date
2.1	Notification of Intention to Commence Construction / Building Work	Complete Schedule 1 (Construction Regulations)	Before commencement on site
2.2	Assignment of Responsible Person to Supervise Construction Work	All relevant appointments, as per OHS Act and Construction Regulations.	Before commencement on site
2.3	Competence of Responsible Persons	Employer Requirement & OHS Act	Together with H&S plan
2.4	Compensation of Occupational Injuries and Diseases Act (COIDA) 130 of 1993	COIDA Requirement	Together with H&S plan
2.5	Health and Safety Organogram	Employer Requirement	Together with H&S plan
2.6	Initial Hazard Identification and Risk Assessment based on the Employer's assessment	Construction Regulations.	Together with H&S plan
2.7	Medical Certificate of Employees	Construction Regulations	On commencement of construction.

ANNEXURE B (to H&S specification)

PAM 6 OTHER REQUIREMENTS

The Principal Contractor shall comply but not be limited to the following requirements and shall report on these to the Employer at progress meetings or at least monthly whichever is sooner.

What	When	Output	Accepted by Employer & date
Induction training	Every worker before he/she starts work.	Attendance registers	
Awareness Training (Tool Box Talks)	At least weekly	Attendance registers	
Health & Safety Reports	Monthly	Report covering: <ul style="list-style-type: none"> <input type="checkbox"/> Incidents / accidents and investigations <input type="checkbox"/> Non-conformances by employees & contractors <input type="checkbox"/> Internal & External H&S audit reports 	
Emergency procedures	Ongoing evaluation of procedure	Table procedure in writing as well as tel. numbers	
Risk assessment	Updated and signed off at least monthly	Documented risk assessment	
Safe work procedures	Drawn up before workers are exposed to new risks	Documented set of safe work procedures (method statements) updated and signed off.	
General Inspections	Weekly & daily	Report OHS Act compliance: <ul style="list-style-type: none"> <input type="checkbox"/> Scaffolding <input type="checkbox"/> Excavations <input type="checkbox"/> Formwork & support work <input type="checkbox"/> Explosive tools 	
General Inspections	Monthly	<ul style="list-style-type: none"> <input type="checkbox"/> Firefighting equipment <input type="checkbox"/> Portable electrical equipment <input type="checkbox"/> Ladders <input type="checkbox"/> Lifting equipment/slings 	
List of contractors	List to be updated weekly	Table list, number of workers and Company tel. numbers	
Workman's Compensation	Ongoing	Table a list of Contractors' workman's compensation proof of good standing.	

PAM 7 MEASUREMENT AND PAYMENT

PAM 7.1 Basic principles

In addition to those aspects covered by PAM 7.2 below, Occupational Health and safety aspects related to particular items of work will be held to be covered by the tendered sum or rate for that work.

PAM 7.2 Scheduled items

ITEM		UNIT
7.2.1	General safety obligations:	Sum
Compliance with the general health and safety obligations will be measured and paid by the sum. This item may be scheduled as a fixed charge item.		
7.2.2	Time related obligations:	Sum
Compliance with the general health and safety obligations will be measured and paid by the sum. This item may be scheduled as a time-related item.		

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL
FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA
AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT
ENVIRONMENTAL MANAGEMENT PLAN**

PEM ENVIRONMENTAL MANAGEMENT PLAN

PEM.1 PURPOSE

The purpose of the EMP is to encourage good management practices through planning and commitment with respect to environmental issues, and to provide rational and practical environmental guidelines to minimise disturbance of the natural environment.

PEM.2 RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT

The contractor will be responsible for environmental control on site during construction and the maintenance period. The construction activities will be monitored by an independent environmental specialist and audited against the EMP.

PEM.3 TRAINING AND INDUCTION OF EMPLOYEES

The contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes sub-contractors, casual labour, etc.).

PEM.4 COMPLAINTS REGISTER AND ENVIRONMENTAL INCIDENT BOOK

Any complaints received by the project team from the community will be recorded. The complaint will be brought to the attention of the site manager.

All complaints received will be investigated and a response given to the complainant within 28 days.

All environmental incidents occurring on the site will also be recorded.

PEM.5 ENVIRONMENTAL SAFETY

The management of impacts associated with various categories of concern is discussed as separate topics, indicated below.

PEM.5.1 Soil

- (a) Topsoil should be temporarily stockpiled, separately from (clay) subsoil and rocky material, when areas are cleared. If mixed with clay sub-soil the usefulness of the topsoil for rehabilitation of the site will be lost.
- (b) Stockpiled topsoil should not be compacted and should be replaced as the final soil layer. No vehicles are allowed access onto the stockpiles after they have been placed.
- (c) Stockpiled soil should be protected by erosion-control berms if exposed for a period of greater than 14 days during the wet season. The need for such measures will be indicated in the site-specific report.
- (d) Topsoil stripped from different sites must be stockpiled separately and clearly identified as such. Topsoil obtained from sites with different soil types must not be mixed.
- (e) Topsoil stockpiles must not be contaminated with oil, diesel, petrol, waste or any other foreign matter, which may inhibit the later growth of vegetation and microorganisms in the soil.

- (f) Soil must not be stockpiled on drainage lines or near watercourses without prior consent from the Project Manager.
- (g) Soil should be exposed for the minimum time possible once cleared of invasive vegetation, that is the timing of clearing and grubbing should be co-ordinated as much as possible to avoid prolonged exposure of soils to wind and water erosion. Stockpiled topsoil must be either vegetated with indigenous grasses or covered with a suitable fabric to prevent erosion and invasion by weeds.
- (h) Limited vehicular access is allowed across rocky outcrops and ridges.
- (i) All cut and fill surfaces need to be stabilized with appropriate material or measures when major civil works are complete.
- (j) Erosion and donga crossings must be dealt with as river crossings. Appropriate soil erosion and control procedures must be applied to all embankments that are disturbed and de-stabilized.
- (k) All equipment must be inspected regularly for oil or fuel leaks before it is operated. Leakages must be repaired on mobile equipment or containment trays placed underneath immobile equipment until such leakage has been repaired.
- (l) Soil contaminated with oil must be appropriately treated and disposed of at a permitted landfill site or the soil can be regenerated using bio-remediation methods.
- (m) Runoff must be reduced by channeling water into existing surface drainage system.

PEM.5.2 Water

- (a) Adequate sedimentation control measures must be instituted at any river crossings when excavations or disturbance of a riverbanks or riverbeds takes place.
- (b) Adequate sedimentation control measures must be implemented where excavations or disturbance of drainage lines of a wetland may take place.
- (c) All fuel, chemical, oil, etc. spills must be confined to areas where the drainage of water can be controlled. Use appropriate structures and methods to confine spillages such as the construction of berms and pans, or through the application of surface treatments that neutralise the toxic effects prior to the entry into a watercourse.
- (d) Oil absorbent fibres must be used to contain oil spilt in water.
- (e) During construction through a wetland, the majority of the flow of the wetland should be allowed to pass downstream.
- (f) Vehicular traffic across wetland areas must be avoided.
- (g) No dumping of foreign material in streams, rivers and/or wetland areas is allowed.
- (h) The wetland area and/or river must not be drained, filled or altered in any way including alteration of a bed and/or, banks, without prior consent from the DWAF. The necessary licenses must be obtained in terms of Section 21 and 22 of the National Water Act, 36 of 1998 from DWAF.
- (i) No fires or open flames are allowed in the vicinity of the wetland, especially during the dry season.
- (j) No swimming, washing (including vehicles and equipment), fishing or related activity is permitted in a wetland or river without written permission from the Project Manager.
- (k) Disturbances to nesting, breeding and roaming sites of animals in or adjacent to wetland areas must be minimized.

PEM.5.3 Air

- (a) Speed limits must be implemented in all areas, including public roads and private property to limit the

levels of dust pollution.

- (b) Dust must be suppressed on access roads and construction sites during dry periods by the regular application of water or a biodegradable soil stabilisation agent. Water used for this purpose must be used in quantities that must not result in the generation of run-off.
- (c) The site-specific investigation will quantify the impact of dust on nearby wetlands, rivers and dams in terms of sedimentation. Mitigation measures identified during the site specific study must be implemented.
- (d) The Contractor must notify the Principal of all schools within 50m of the site of proposed activities. The Principal must in turn ensure that children with allergies and respiratory ailments take the necessary precautionary measures during the construction period. The Contractor must ensure that construction activities do not disturb school activities e.g. dust clouds may reduce visibility affecting sports activities.
- (e) Waste must be disposed of, as soon as possible at a municipal transfer station, skip or on a permitted landfill site. Waste must not be allowed to stand on site to decay, resulting in malodours.
- (f) Noise control measures must be implemented. All noise levels must be controlled at the source. All employees must be given the necessary ear protection gear. IAP's must be informed of the excessive noise factors.
- (g) The Contractor must inform all adjacent landowners of any after-hour construction activities and any other activity that could cause a nuisance e.g. the application of chemicals to the work surface. Normal working hours must be clearly indicated to adjacent land owners.
- (h) No loud music is allowed on site and in construction camps.
- (i) No fires are allowed if smoke from such fires will cause a nuisance to IAP's.

PEM.5.4 Social and Cultural

- (a) Access by non-construction people onto any construction sites must be restricted. The Contractors activities and movement of staff must be restricted to designated construction areas only.
- (b) The Contractors crew must be easily identifiable due to clothing, identification cards or other methods.
- (c) Rapid migration of job seekers could lead to squatting and social conflict with resident communities and increase in social pathologies if not properly addressed. The Contractor must ensure that signs indicating the availability of jobs are installed.
- (d) Criteria for selection and appointment (by the Contractor) of construction labour must be established to allow for preferential employment of local communities. The Local Authority must be actively involved in the process of appointing temporary labourers.
- (e) Sub-Contractors and their employees must comply with all the requirements of this document and supporting documents e.g. the Contract document that applies to the Contractor. Absence of specific reference to the sub-contractor in any specification does not imply that the sub-contractor is not bound by this document.
- (f) No member of the construction workforce is allowed to wander around private property, except within the immediate surroundings of the site.
- (g) The Contractor must provide suitable sanitation facilities for site staff. Sanitation provided during the construction phase should be managed so that it does not cause environmental health problems. The use of the surrounding fields or grounds for toilet purposes is not permitted under any circumstance.
- (h) The Contractor must arrange for all his employees and those of his sub-contractors to be informed of the findings of the environmental report before the commencement of construction to ensure:
 - A basic understanding of the key environmental features of the work site and environments, and

- Familiarity with the requirements of this document and the site specific report.
- (i) Supervisory staff of the Contractor or his sub-contractors must not direct any person to undertake any activities which would place such person in contravention of the specifications of this document endanger his/her life or cause him/her to damage the environment.
 - (j) The demand for construction materials and supplies will have an effect on the local economy. This impact can be optimised by sourcing and purchasing materials locally and regionally wherever possible, insofar as the material complies with the design specification.
 - (k) The Contractor must maintain a detailed complaints register. This must be forwarded, together with solutions, to the authorities when requested.

PEM.5.5 Aesthetics

(a) Scenic Quality

Damage to the natural environment must be minimized.

Trees and tall woody shrubs must be protected from damage to provide a natural visual shield. Excavated material must not be placed on such plants and movement across them must not be allowed, as far as practical.

The clearing of all sites must be kept to a minimum and surrounding vegetation must, as far as possible, be left intact as a natural shield.

No painting or marking of natural features must be allowed.

- (b) All above ground structures could be treated or painted to blend in with the natural environment.
- (c) Cut and fill areas, river and stream crossings and other soil stabilisation works must be constructed to blend in with the natural environment.
- (d) Natural outcrops, rocky ridges and other natural linear features, must not be bisected. Vegetation on such features must, as far as possible, not be cut unless absolutely necessary for construction.
- (e) Excavated material must be flattened (not compacted) or removed from site. No heaps of spoil material must be left on site once the Contractor has moved off site either temporarily or permanently.
- (f) Any complaints from interest groups regarding the appearance of the construction site must be recorded and addressed promptly by the Contractor.

PEM.5.6 Archaeology and Cultural Sites

- a) All finds of human remains must be reported to the nearest police station.
- b) Human remains from the graves of victims of conflict, or any burial ground or part thereof which contains such graves and any other graves that are deemed to be of cultural significance may not be destroyed, damaged, altered, exhumed or removed from their original positions without a permit from the South African Heritage and Resource Agency (SAHRA).
- c) Work in areas where artefacts are found must cease immediately.
- d) Under no circumstances must the Contractor, his/her employees, his/her sub-contractors or his/her sub-contractors' employees remove, destroy or interfere with archaeological artefacts. Any person who causes intentional damage to archaeological or historical sites and/or artefacts could be penalised or legally prosecuted in terms of the National Heritage Resources Act, 25 of 1999.
- e) A fence at least 2 m outside the extremities of the site must be erected to protect archaeological sites.
- f) All known and identified archaeological and historical sites must be left untouched.
- g) Work in the area can only be resumed once the site has been completely investigated. The Project

Manager will inform the Contractor when work can resume.

PEM.5.7 Flora

- a) All suitable and rare flora and seeds must be rescued and removed from the site. They must be suitably stored, for future use in rehabilitation.
- b) The felling and/or cutting of trees and clearing of bush must be minimised.
- c) Bush must only be cleared to provide essential access for construction purposes.
- d) The spread of alien vegetation must be minimized.
- e) Any incident of unauthorised removal of plant material, as well as accidental damage to priority plants, must be documented by the Contractor.
- f) Woody vegetative matter stripped during construction must either be spread randomly throughout the surrounding fields so as to provide biomass for other microorganisms and habitats for small mammals and birds, or it may be stockpiled for later redistribution over the reinstated top soiled surface. No vegetative matter must be burnt or removed for firewood other than those removed during the grubbing and clearing phase. Such vegetation can be made available to the local inhabitants to be used as firewood.
- g) No tree outside the footprint of the Works area must be damaged.

PEM.5.8 Fauna

- a) No species of animal may be poached, snared, hunted, captured or willfully damaged or destroyed.
- b) Snakes and other reptiles that may be encountered on the construction site must not be killed unless the animal endangers the life of an employee.
- c) Anthills and/or termite nests that occur must not be disturbed unless it is unavoidable for construction purposes.
- d) Disturbances to nesting sites of birds must be minimized.
- e) The Contractor must ensure that the work site is kept clean and free from rubbish, which could attract pests.

PEM.5.9 Infrastructure

- a) The relevant authorities must be notified of any interruptions of services, especially the District Municipality, Local Municipality, National Road Agency, Spoornet, TELKOM and ESKOM. In addition, care must be taken to avoid damaging major and minor pipelines and other services.
- b) The integrity of property fences must be maintained.
- c) No telephone lines must be dropped during the construction operations, except where prior agreement by relevant parties is obtained. All crossings must be protected, raised or relocated as necessary.
- d) All complaints and/or problems related to impacts on man-made facilities and activities must be promptly addressed by the Contractor and documented.
- e) Storage Facilities
 - Proper storage facilities should be provided for the storage of oils, grease, fuels, chemicals and hazardous materials.
 - The Contractor must ensure that accidental spillage does not pollute soil and water resources.
 - Fuel stock reconciliation must be done on all underground tanks to ensure no loss of oil, which could pollute groundwater resources.

- Cement must be stored and mixed on an impermeable substratum.

f) Traffic Control

All reasonable precautions must be taken during construction to avoid severely interrupting the traffic flow on existing roads, especially during peak periods.

Before any work can start the Local Traffic Department must be consulted about measures to be taken regarding pedestrian and vehicular traffic control.

g) Access Roads

The Contractor and the affected landowner must collaborate on the planning and construction of new access routes and the repair or upgrading of existing routes.

Access to the site must be controlled such that only vehicles and persons directly associated with the work gains access to the site.

Temporary access roads must not be opened until required and must be restored to its former state as soon as the road is no longer needed.

h) Batching Plants

Concrete must be mixed only in an area demarcated for this purpose. All concrete spilled outside this area, must be promptly removed by the Contractor and taken to a permitted waste disposal site. After all concrete mixing has been completed, all waste concrete must be removed from the batching area and disposed of at an approved dumpsite. Storm water must not be allowed to flow through the batching area. Water laden with cement must be collected in a retention area for evaporation and not allowed to escape the batching area. Operators must wear suitable safety clothing.

- i) Chemical toilet facilities should be managed and serviced by a qualified company. No disposal or leakage of sewerage should occur on or near the site.

j) Blasting

Blasting must not endanger public or private property.

Noise mufflers and/or soft explosives must be used to minimize the impact on animals.

All the provisions of the Explosives Act, 26 of 1956 and the Minerals Act, 50 of 1991 must be complied with.

The Contractor must take measures to limit fly rock.

PEM.5.10 Safety

- Measures must be taken to prevent any interference that could result in flashover of power lines due to breaching of clearances or the collapse of power lines due to collisions by vehicles and equipment.
- Measures must be taken during thunderstorms to protect workers and equipment from lightning strikes.
- All tall structures must be properly earthed and protected against lightning strikes.
- The process of excavation and back filling must be carried out as a sequential process following one another as quickly as possible. Excavations must only remain open for a minimum period of time and during this time they must be clearly demarcated. If excavations place the public at risk these sites must be fenced.
- The residents directly affected by open trenches must be notified of the dangers. This will be done during the site-specific phase.

PEM.5.11 Waste

PEM 5.11.1 Solid Waste

- (a) Littering on site and the surrounding areas is prohibited.
- (b) Clearly marked litterbins must be provided on site. The Contractor must monitor the presence of litter on the work sites as well as the construction campsite.
- (c) All bins must be cleaned of litter regularly.
- (d) All waste removed from site must be disposed at a municipal/permitted waste disposal site.
- (e) Excess concrete, building rubble or other material must be disposed of in areas designated specifically for this purpose and not indiscriminately over the construction site.
- (f) The entire works area and all construction sites must be swept of all pieces of wire, metal, wood or other material foreign to the natural environment.
- (g) Contaminated soil must be treated and disposed of at a permitted waste disposal site, or be removed and the area rehabilitated immediately.
- (h) Waste must be recycled wherever possible.

PEM 5.11.2 Liquid Waste

- (a) The Contractor must maintain mobile toilets on site.
- (b) The Contractor must provide adequate and approved facilities for the storage and recycling of used oil and contaminated hydrocarbons. Such facilities must be designed and sited with the intention of preventing pollution of the surrounding area and environment.
- (c) All vehicles must be regularly serviced in designated area within the Contractors camp such that they do not drip oil.
- (d) All chemical spills must be contained and cleaned up by the supplier or professional pollution control personnel. Run-off from wash bays must be intercepted.

PEM 5.11.3 Hazardous Waste

- (a) No hazardous materials must be disposed of in the field or anyplace other than a registered landfill for hazardous material. Hazardous waste must be stored in containers with tight lids that must be sealed and must be disposed at an appropriately permitted hazardous waste disposal site. Such containers must not be used for purposes other than those originally designed for.
- (b) The Contractor must maintain a hazardous material register.

PEM.5.12 Rehabilitation and Site clearance

- (a) When all major construction activities are completed, the site must be inspected to determine site-specific rehabilitation measures. This may be considered as unplanned work e.g. soil rehabilitation due to oil spills.
- (b) All temporary buildings and foundations, equipment, lumber, refuse, surplus materials, waste, construction rubble fencing and other materials foreign to the area must be removed.
- (c) If waste products cannot be recycled they must be disposed of at a permitted landfill site.
- (d) All drainage deficiencies including abandoned pit latrines and waste pits must be corrected.

- (e) Cut and fill areas must be restored and re-shaped.
- (f) The area must be restored to its natural vegetation condition using indigenous trees, shrubs and grasses as directed by a grassland and/or rehabilitation expert.
- (g) Borrow pits must be re-shaped into even slopes and surfaces to blend with the natural terrain and topsoil must be replaced.
- (h) The grass mix, shrubs and trees used for rehabilitation must be compatible with the species identified in the site-specific investigation.
- (i) Areas compacted by vehicles during construction must be scarified to allow penetration of plant roots and the regrowth of natural vegetation.

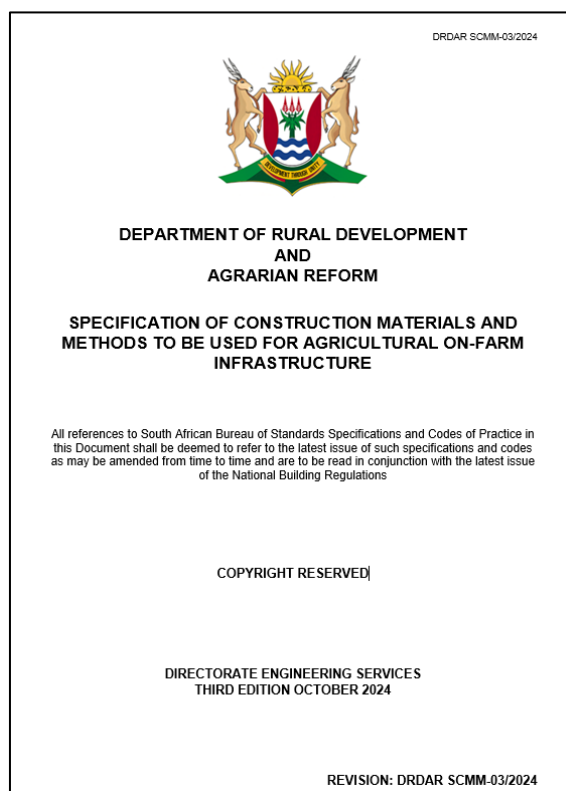
PEM.6 MEASUREMENTS AND PAYMENT

No additional payment will be made to the Contractor to comply with the above actions as it will be deemed to be included in the rates tendered.

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET TUNNEL FITTED
WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN MANDELA AGRICULTURAL SCHOOL
IN KSD LOCAL MUNICIPALITY OF OR TAMBO DISTRICT**

PES-24/25-0016C

The Project particular specifications are fully detailed the “Specifications of Construction Materials and methods to be used for Agricultural on-farm Infrastructure”, Third Edition, October 2024, Revision “DRDAR SCMM-03/2024”.



The document can be downloaded from the DRDAR website, at the following link:

https://www.drdar.gov.za/wp-content/uploads/2024/11/DRDAR-SCMM-03_2024-STANDARD-SPECIFICATIONS.pdf

or be obtained in electronic form at:

THE DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
Corner Owen and Leeds Street, Botha Sigcawu Building,
Fourth Floor
Mthatha, 5099

**NB: The Bill of Quantities and Drawings must be read in conjunction with:
Section 2, 3, 21, 23 and other relevant section in the: “Specifications of Construction
Materials and methods to be used for Agricultural on-farm Infrastructure” document.**

PART C4 – SITE INFORMATION

**EASTERN CAPE GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN
MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO
DISTRICT**

C4 Site Information

ITEM	DESCRIPTION
Site Location	Mandela Agricultural School is ±53km from Mthatha CBD towards Idutywa via Qunu Eskom Substation to Mvezo.
GPS co ordinates	Mandela Agricultural School co-ordinates 31°56'16"S 28°33'15"E
General geography	Rough terrain
Road conditions	Gravel road from N2 to site
Site extent	1.5ha
Site clearance required	Yes
Site soil properties	Unknown, contractor to inspect and verify the suitability
Site vegetation	Grass
Site fenced	Yes
Site access	Good gravel road
Services available	Existing borehole and tunnel
Accommodation	Provide own
Labour	Negotiate for local labour with the Community
Storage of materials	Provide own
Security	Provide own
Construction difficulty	Fair terrain
Plant required	Water tanks, Jackhammers, Compact rollers, whacker, concrete mixer, generator with welder, concrete vibrator.
Equipment / tools required for	Contractor to identify specific tools for various tasks
Transport required	For all materials For all plant, equipment and tools For contractor's personnel
Testing of works	Concrete test cubes for testing of concrete strength; Laboratory testing of compacted area Engineer to oversee testing of the completed Works
Commissioning of works	Contractor to commission and test.

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID DOCUMENT FOR THE SUPPLY, DELIVERY AND CONSTRUCTION OF HAIL NET
TUNNEL FITTED WITH SMART CLIMATIC BOXES AND IRRIGATION SYSTEM IN
MANDELA AGRICULTURAL SCHOOL IN KSD LOCAL MUNICIPALITY OF OR TAMBO
DISCTRICT**

C.4.2 Schedule of contract Drawings

The following drawings form part of this contract:

DRAWING NO:	DESCRIPTION:
2	HAILNET TUNNEL LAYOUT 1
3	HAILNET TUNNEL LAYOUT 2
4	TANK LAYOUT AND PUMP HOUSE
5	IRRIGATION LAYOUT
6	IRRIGATION LAYOUT 2
7	PUMP HOUSE